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July 4/50

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HIGH TIMES JULY



Many new growers—and even master growers—prefer to take a minimalist approach to feeding, watering their gardens only once a day for a few minutes at a time and also rotating the feeding regimen.

—Beginner Grow Basics, page 45

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45 Beginner Grow Basics

Keeping it simple is the best method to follow in any new endeavor, and growing marijuana is no different. *HT's* cultivation editor breaks down the essentials of good horticulture in this how-to for beginners to get set up and growing right now. *By Nico Escondido*

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By forging a new concentrate culture within the existing cannabis community and establishing 710 as the new 420, Millennials are ushering in a new pot-smoking paradigm. *By Bobby Black*

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Savvy bud breeders are using ganja genetics from the original source region to infuse new life into tired pot varieties and improving the quality of their crops. *By Anthony Luna*

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Two extracts experts, K. from Trichome Technologies and Mel Frank, show you how to make the cleanest concentrate available on the market.

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Tracking heroin from Afghanistan's remote mountain areas through Europe's streets and beyond, Antoinette de Jong and Robert Knoth document how drugs, armed conflict, and government corruption feed one another.

90 High Times Interview: Roseanne

She's a comedy legend who's risen to the top of the entertainment industry and stayed there. But it hasn't been easy. Roseanne talks about showbiz, pot politics and the American psyche. *By Dan Skye*



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Doshier is one of the stars of the glass world.

► Glass Artist of the Month

Bryan Doshier spent his early years cultivating a wild imagination, drawing inspiration and his lust for life from the picturesque mountains and lakes of northern Idaho. He says the planets aligned for him in 1997 when his alter ego—the glassblower known as “Doshworld”—was born.

In his early studies, Doshworld explored a collection of mediums—ceramics, steel sculpture, oil painting, life drawing, collage, print-making and textiles—but glass is his passion.

He has worked in the flame with many other talented artists and produced outstanding time and space collaborations. He’s particularly proud of putting a new spin on an old school technique—the “cut ‘n’ flip.” Doshworld has developed a breathtaking style of lampworking which utilizes pure gold and silver and an ancient “wrap and rake” technique. It produces a color-changing, inside-out glass pattern, encasing and capturing the energy of the moment. Every cut ‘n’ flip he creates is an absolute, one-of-a-kind piece.

Doshworld thinks of himself as a “renaissance warrior” relying on his artistry to nurture his evolution as he explores the amazing gift of life. Take a peek at his world at doshworld.com.

Check out samples of Doshworld’s work at hightimes.com/glass.

POT POLL

How Old Were You? Under 12...8%

We weren’t all that surprised by our last poll which asked what age you were when you first tried pot. Nearly three quarters of respondents said their first experience occurred between the ages of 12 and 17. No one reported a first time over the age of 30. But the crux of the results is this: Our children are at risk—not from pot, but from the legal system. Let’s work toward legalization so young people won’t suffer the stigma of arrest and compromise their future. Check out hightimes.com/polls and cast your vote in our latest poll.

12-17...72%

18-21...15%

22-29...4%



► Nico's Nuggets

Is your garden befuddling you? *High Times* cultivation editor Nico Escondido, the star of the popular DVD *Grow Like A Pro*, now offers his wisdom online in his new Q&A column “Nico’s Nuggets.”

Ask your questions at hightimes.com/nicosnuggets. Follow him @nico_escondido



► High on Sex

Hyapatia Lee is a medical marijuana patient and a member of NORML. She’s also a former adult film superstar. Hyapatia is now answering your questions about marijuana and sex in her new column “Sex Pot.” Ask Hyapatia questions at hightimes.com/sexpot.



Miss July 2013

NAME: Michelle
PROFILE: MishMisch
AGE: 22
CITY: Lansing, MI
OCCUPATION: Caregiver/butender

To enter or rate contestants, go to misshightimes.com. You must be 18 years or older to enter.

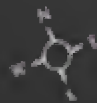
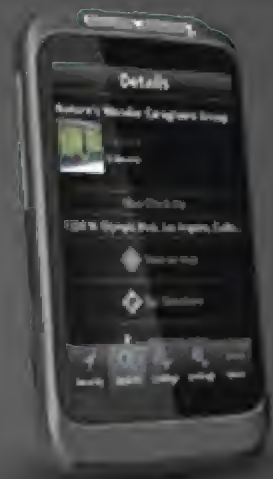
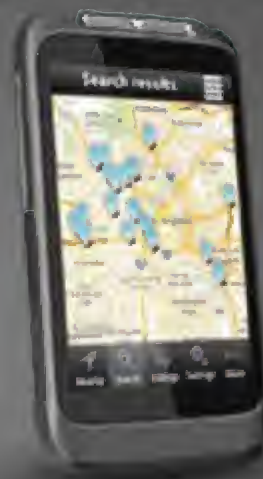
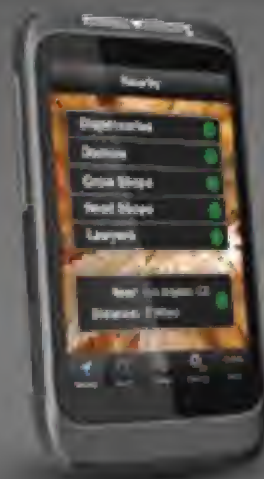
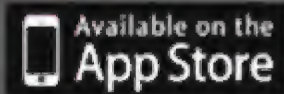
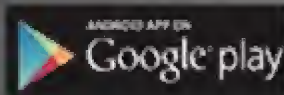


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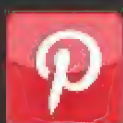
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Dawn of the Dabs



It's not for everyone.

I guess I will start this off by saying, simply, that I don't like doing dabs. Every time I've tried it I have coughed my lungs out, and then I'm sitting there stoned out of my gourd, with my chest stinging like I just inhaled a dozen or so angry bees. I've seen other folks take hits without coughing, so I know it's not an issue for everyone, but it is for me. Secondly, there have been a few times smoking dabs when I just got too high. I'm not an idiot—I didn't dial 911 or anything like that—but I did spend a couple hours thinking, "Man, I wish I didn't do that." However, that's

just my opinion; I'm not preaching here. Dabs are the biggest trend in pot smoking since people decided to ditch their PVC bongs and start toking out of glass. In this issue, Bobby Black dissects the phenomenon (pg. 54), and there's more coverage to come. In the end, it's just cannabis—a lot of it, perhaps, but smoking it ain't gonna kill you.

Making it is another story. Explosions caused by novice BHO manufacturers are grabbing the same kind of headlines that meth-lab explosions did 10 years ago. In the very near future, there's going to be a media backlash against the whole dab phenomenon that will work against a lot of the positive advances that our culture has made in the past few years. For that reason, we have not offered a detailed account of how to perform butane extractions in this issue. We don't want people waking up in the burn ward and saying, "I was just following what they said in *High Times*." I am willing to debate the issue: If folks think we're doing the culture a disservice by not detailing these methods, I will hear you out. But there are other methods for making concentrates that utilize less volatile chemicals, and for now, those are the ones we're choosing to focus on.

That said, *High Times* is also interested in teaching those who are already making concentrates on a professional level how to clean them of contaminants. There is a lot of oil, glass and budder out there on the market, and who knows what's in it? When you concentrate marijuana, you also concentrate the pesticides, molds and debris that might be on it. So in the interest of public health, K. from Trichome Technologies and Mel Frank bring us "The Art & Science of Cleaning Concentrates, Part I," (pg. 72) the first in a two-part series designed to show BHO manufacturers the methods by which they can make their products as healthy as possible. These procedures are not for the layman, and so (once again) we don't go into the details of the initial extractions. And yes, this first installment is aimed at those who use butane, nitrogen or CO₂ as their primary initial extraction solvent. We'll be following up this piece next month with the Budderking's all-organic extraction method.

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Editor-In-Chief

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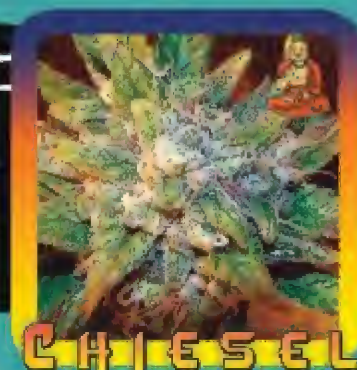
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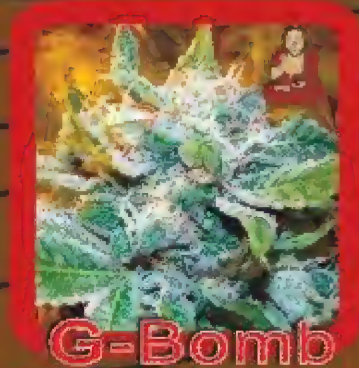
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Stand Your Ground, High Times!

When I was in prison in 1974, friends sent me the first issue of *High Times*. Censorship rules in the joint had briefly been relaxed due to a federal judge's intervention (the police state was on the defensive in the immediate aftermath of the Watergate scandal). My copies of issues numbers 1 and 2 were lost when I loaned them to another prisoner, but that's life ... especially in the clink.

Once I was paroled, I became a steady reader of the magazine. I took out a subscription and now have a large collection of back issues. Wouldn't part with them for love or money.

I met *High Times* founder Tom Forçade only once, in 1972, but the memory is indelible. He seemed to have extraordinary kinds of information ... He told me that J. Edgar Hoover was homosexual, and he narrated a vivid characterization of Clyde Tolson giving Edgar a blow job every morning before they were separately limousined off to FBI headquarters from their respective next-door apartments. At the HQ building, Tom averred, they had adjoining offices. And he stated in unequivocal terms: "Nixon's a drunk."

Tom had an element of charisma, as well as mystery, about him. I had heard neither of these morsels previously, but I was impressionable and believed them as soon as he said them. It turns out, of course, that many things once hidden are now exposed and that, indeed, Forçade knew whereof he spoke.

After all these years, *High Times* is still publishing despite Tom Forçade's suicide, despite the detour into glamorizing cocaine (or nearly worse, at one point), despite acts of Congress, despite the DEA's repeated targeting and harassment. You've even outlasted several of those pimps for prohibitionism, those all-too-complicit, all-too-willing accomplices in Drug War mob-mentality journalism: *US News*, *Newsweek* and, soon, *Reader's Digest* and *Time*.

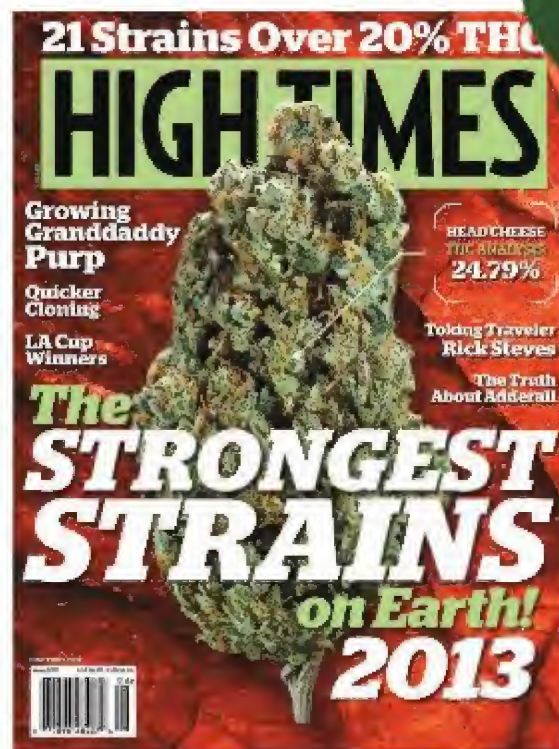
Looking ahead, I devoutly hope that the nightmarish approach of the totally electronic/digital mass media won't succeed where the narcs and prohibitionists have failed, and finally extinguish your magazine.

Don't succumb! Hang in there and keep fighting for us, *High Times*!

Ollie Steinberg

No Satisfaction

Chris Simunek's review of the Rolling Stones' recent output was pathetically lame. Don't hire someone to review a



I met High Times founder Tom Forçade only once, in 1972, but the memory is indelible.

band who starts out by telling us he doesn't like them. And suggesting that readers steal (!) their original albums instead of buying a compilation is lazy, stupid and irresponsible. Gimme a shout if you want someone who can write about music that your audience can appreciate.

Rick Ronson

Simunek replies: Rick, I've been a Stones fan since I was a tyke. It's true, I'm not all that interested in their recent output, but I never said I didn't like them. I believe *Grrr!* is the Rolling Stones' 31st best-of compilation, and not a particularly inspired one at that. Like many longtime Stones fans, over the years, I have bought their albums on vinyl, tape, CD, remastered CD ... I've paid for the same batch of music so many times, I feel no guilt suggesting that people steal their stuff off the Internet. Perhaps I'm just criminally minded.

When the Blind Meets the Kind

I need help. When I was 17, I was in a car accident, and I lost the ability to see out of my left eye. This past year, at age 28, I started smoking marijuana. And something bizarre happened, and it's happened all four times I've gotten high: When I smoke weed, I regain the sight in my left eye. Not 20/20 vision, but both eyes fully engage and follow stimuli. My eye literally ceases to be lazy, and I can

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see what's in my peripheral vision to my left.

I don't know what

to do about this, but in theory, spreading this kind of news is the type of thing that Facebook, and social media, and the Internet should be for.

PLEASE SHARE THIS! Please get the word out—and if anyone knows someone who can explain this or put this information to good use, or if there's any way I can volunteer to be studied, please contact me. Thank you in advance. I think I may be able to help someone I've never met before.

Bryson Turner

Bryson, we showed your letter to a friend in the medical marijuana research field who had some things to say about it, but who asked that his response be given anonymously because he is not a medical doctor. Here it is:

"What is the science behind this? It's likely an optic neuropathy or axotomy that is being relieved by

the antioxidant properties of the cannabinoids, which are neuroprotective. The mitochondria is reported to be involved in this. It is certainly an interesting story and believable.

"I've never heard of this directly, but I would suggest that he consider CBD tinctures to see if these also help. For one thing, he may be able to use them more frequently and still function; for another, he may be able to tolerate a much higher dose. I'd stay away from the synthetic cannabinoids, as their toxic profiles are still a crapshoot, but one, HU-211, has shown a history in helping with optic-nerve axotomy."

Hooray for Hager

I want to applaud Steve Hager's comments regarding moderation in pot use. I feel that viewpoints like his are too infrequently aired within the stoner community. It's unfortunate that the anti-pot propaganda is so fierce and false that we are put in the position of having to pretend that marijuana is totally harmless and could never be abused by anyone. Weed truly is wonderful, but like all things, it provides the most benefits when used in moderation, and it can be harmful when used to excess.

Northern Stoner



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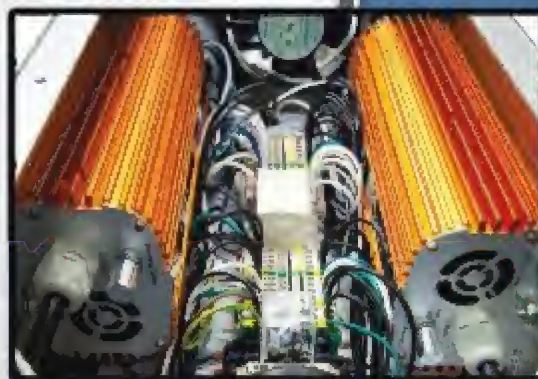
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BUDS VS DABS Is 710 the new 420? The debate rages on—in the hearts, minds and lungs of stoners everywhere, as well as in the pages of *High Times*. For more about the culture of concentrates, check out “Generation Dab” on pg. 54. Or for a more technical angle on the topic, turn to pg. 72. *Photo by Lochfoot*

**Contact
High**



**Contact
High**

THE STORY OF O This field of opium poppies (*Papaver somniferum*) in Afghanistan's Balkh Province was photographed by Antoinette de Jong and Robert Knoth, the authors of *Poppy: Trails of Afghan Heroin*. For nearly two decades, de Jong and Knoth have been covering the trail of death, corruption and destruction related to the opium trade as these beautiful flowers are processed into heroin and shipped abroad through the former Eastern Bloc nations into Europe and beyond. Read their story on p. 82.



**Contact
High**

CLEANER CONCENTRATES *High Times* is known for changing the way people regard marijuana. Lately, we've been talking to K from Trichome Technologies and cannabis author Mel Frank about how to make dabs safer to ingest. The result is "The Art & Science of Cleaning Concentrates" (p.72) the first in a two-part series which many of you have anxiously been awaiting.





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Justin Bieber's Latest High-Jinks

Entertainment

High with Eddie Huang
Top pot chef shares his cooking wisdom. p.27



Food

Super Stoner Salad
Putting the green in your greens. p.34



Is it time to invest in pot stocks?

Creating a Pot Investment Portfolio

With Wall Street watching, the cannabis industry is poised to grow exponentially. Is it time to invest in the next big bubble? *By John Viet*

When Prohibition ended in 1933, alcohol stocks exploded in value and in the volume of shares traded. Millionaires were born and became titans of global industry—the Kennedys and Rockefellers come to mind. Following World War II, a surge in military technology and development dominated the markets, entrenching financial power for Boeing, Lockheed and the Bush family, among others. The Internet boom of the 1990s represented the last new industry to bully its way into a commanding position in the global markets. But now, with the increasing acceptance of cannabis around the world, a gaggle of US companies are emerging from a criminalized sector that has nonetheless flourished for the last century.

Five years ago, only a few cannabis-related companies were trading publicly; now, there are a dozen and counting. Many have established alliances with larger firms in the medical, farming, technology and information sectors. Not subject to federal laws and awash in casino dollars, US and Canadian Indian reservations provide refuge for new cannabis farms and laboratories. Currently, every stock in the cannabis sector is trading at well below \$1 per share, rendering them ineligible to be listed on the New York Stock Exchange. The Securities and Exchange Commission mandates that any new stock trading under \$5 be deemed a “penny stock” and traded on either the NASDAQ’s Over the Counter Bulletin Board (OTCBB) or the Pink

Sheets. (Ask any broker and he’ll tell you about some local legend who made millions “on the pinks” back in the old days.)

While penny stocks are required to file a few cookie-cutter reports to go public and maintain their listing, they are *not* required to submit audited financial statements. Wade Hansen of Learning Markets avoids these stocks as a general rule: “If you want to see some really ugly accounting, pull up their annual financial filings—if you can find them,” he says. “You will see stuff that will make your skin crawl.”

Penny stocks are also easily manipulated by classic “pump-and-dump” schemes (i.e., bogus information disseminated to attract investors before a big sell-off by insiders). The Internet and the newfound prominence of cannabis in the media make it easy for companies to appear in national news magazines and deluge the financial press with releases extolling “new alliances” and “plans to introduce” products and services. Eager investors from traditional sectors are easily lured by well-paid marketing teams through conference calls, trade shows and satellite media tours.

The SEC’s annual \$1.3 billion budget makes it impossible to adequately investigate the 15,000 companies trading on public exchanges. In 2012, the agency brought only 734 enforcement actions and pulled in a paltry \$3 billion in fines and repayments to bilked investors, mainly from major players like Credit Suisse and Fannie Mae. The time, money and manpower required to prove insider malfeasance at smaller companies is, unfortunately, considered a waste of resources.

Despite this fact, the SEC is currently finalizing new rules regarding “crowd-source funding” and small public flotations, potentially opening the floodgates for more such companies to enter the market. This could be good news for small investors looking to buy stock in cannabis-related companies, especially given that, right now, the stock market

« seems a distant dream for the average stoner: Professional brokers hardly want to bother investing \$500 for a new client and will advise them towards a CD or savings account offering a measly 1 percent annual interest.

As far as penny stocks are concerned, the easiest way for small investors to buy them is through an online account. Most of these services offer per-sale commission costs of between \$7 and \$11. To get started, you'll need the normal mountain of ID, and you might have to visit the local office to verify your signature. You can drop the cash there for immediate availability or fund your account through a bank and wait a day or two. Spending an hour with a representative to learn the apps attached to the site will help immensely.

Be sure to look for tangible holdings—farms, factories, research facilities, products on shelves, websites connected to working phone numbers—when researching companies to invest in. *OTCBB.com* carries press releases and real-time quotes for all Pink Sheet stocks. Scour any financial disclosures and public filings you can find. (Companies can be charged with fraud if they fail to acknowledge glaring problems.) Digging through so-called 10-Q reports for 2012,

Despite the glaring uncertainties, new money continues to stream unabated into the cannabis sector.



for example, one finds cryptic forecasts like this from Medical Marijuana, Inc. (MJNA): "Continued negative cash flows and lack of liquidity create significant uncertainty about the company's ability

to fully implement its operating plan." Hemp, Inc. (HEMP), the biggest player in the sector, has no public filings available on the OTCBB.

While grim, these are also the kind of forecasts that can cause venture capitalists looking for undervalued stocks to drool. And despite the glaring uncertainties, new money continues to stream unabated into the cannabis sector. In the end, parsing and separating the company-generated hype from the independent analysis is your job as a responsible investor. It's your money, which means that only you can separate the weed from the greed. ✨

Publicly traded cannabis companies: Cannabis Science, Inc. (CBIS), Tranzbyte Corporation (ERBB), GreenGro Technologies, Inc. (GRNH), GW Pharmaceuticals PLC (GWPRF), Hemp, Inc. (HEMP), Medbox, Inc. (MDBX), Medical Marijuana, Inc. (MJNA), MediSwipe, Inc. (MWIP), Pharmos Corp. (PARS), Growlife, Inc. (PHOT), Rapid Fire Marketing, Inc. (RFMK), RightSmile, Inc. (RIGH), Terra Tech Corp. Common (TRTC), X-Change Corporation (XCHC).

HIGH FIVE

Pot & Neopaganism

Many latter-day spiritual movements embrace the use of cannabis. *By Mark Miller*



NEO-DRUIDISM

The link to cannabis is obvious among these "spiritual tree-huggers" inspired by Celtic paganism. Living in harmony with nature, Neo-Druids promote the environmental benefits of pot and hemp. Ed Belanger, minister of the Church of the Reformed Druids, has routinely bested the Canadian police and legal system with his knowledge of pot laws, even getting the charges dropped after being busted for an ounce.



KEMETISM

Cannabis is a sacrament for the members of Per Neter Kemet ("Temple Divine of Ancient Egypt"), a revival of ancient Egyptian practices and rites. Kemetism utilizes pot for prayer, celebration and initiation. One ethereal aim is communing with Neter Sentra ("Divine Smoke"). Temple doctrine proclaims that exhaled cannabis lifts one's prayers to Bast, an ancient feline deity now recast as a hemp goddess.



KALI

Once the destructive consort of the Hindu god Shiva, this Western neopagan revival depicts Kali as a benevolent "mother goddess." Not surprisingly, there's a strong feminist strain to Kali worship, whose modern ceremonies include cannabis consumption. Indeed, the perfect varietal for such goddess-worshipping rituals may be the spirit-enhancing, *sativa*-dominant hybrid, Kali Haze.



WICCA

These days, this witchcraft-centric movement counts as high-profile paganism. However, *The Gardnerian Book of Shadows*, the Wiccan tome written by founder Gerald Gardner, is contradictory on the subject of cannabis: It cites pot as a powerful source of plant magic, yet also warns that it's dangerous and addictive. Still, modern-day Wiccans commonly use it for spell-casting and spirit-summoning inspiration.



THELEMA

The "Great Beast" himself, Aleister Crowley, who founded Thelema, wrote that hashish "loosens the girders of the soul, but is neither good nor bad." Since Thelema instructs its followers to "Do what thou wilt," many modern adherents use pot to determine their "True Will"—the interplay between one's authentic self and the rest of the universe, as well as the pathway to achieving one's grand destiny.



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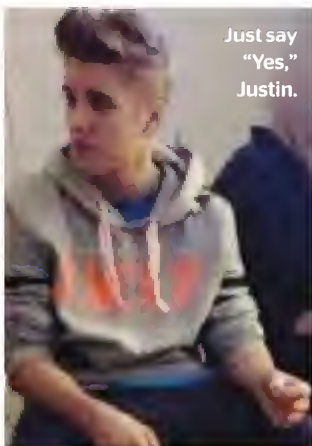
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"Yes,"
Justin.

The Beebs and Buds

It seems like only yesterday that Justin Bieber went apeshit after Toronto growers named a pot strain "J. B. Kush." The Beebs was absolutely *shocked* that his name was associated with marijuana and threatened legal action. (We're not actually sure who he was able threaten.)

Ah, but that was two years ago. It's clear that Justin—now 19—loves pot! He's been spotted a few times this year toking up, most notably at the Chipsey King coffeeshop in Amsterdam. (Allegedly, he needed R&R after some weirdness on his London tour when he showed up two hours late for a concert, fainted onstage and wore a gas mask offstage.) Plus, some particularly aromatic parties have taken place at his house in SoCal.

But the media is after the dude following a pattern of 19-year-old high-spiritedness—and some outright aggressiveness. Justin needs to be responsible for his actions and chill out just a tad. We suggest smoking more. And thinking more, too.



Stand Up and Cheer!

Even the plants look like they're giving Rhode Island a standing ovation. Our smallest state just took a big step toward full legalization. If you're caught in the Ocean State with less than an ounce, you'll get slapped with a \$150 fine only. Go Rhody!

Profiling Colorado Drivers



In Colorado, where the adult recreational use of pot has been legalized, life is a wonderful thing. But what happens when a Rocky Mountain State resident ventures beyond the state's borders? That's become an issue for Coloradoans since November: Increasing evidence indicates the police profiling of vehicles bearing Colorado plates, on the suspicion that the driver is smuggling pot across state lines.

In February, reporter Jonathan "Britt" Chester wrote in Denver's *Westword* that he was stopped on two separate occasions in two different states. Why? Because his car has Colorado plates. In fact, when Chester was pulled over by a Kansas state trooper, the officer allegedly told him that cops "were keeping their eye out for Colorado plates."

Chester was also pulled over by an aggressive state trooper in Tennessee for speeding. Chester says there were plenty of other cars passing *him*, and that it was clear the trooper was looking for pot: He grilled Chester, then called in a K-9 unit to conduct a search (which yielded nothing). As a result of his experiences, Chester advises anyone driving with Colorado plates to exercise caution and avoid giving the cops *any* excuse to pull your car over.

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Google 4:20

Google has generated more than its share of controversy over the company's data sweeps and other potential wide-scale violations of individual privacy, but cooler heads seem to be prevailing in the marketing department. Located in suburban San Francisco, in close proximity to some of the world's best weed, the search-engine giant is using the famous three-digit symbol for cannabis culture in the ad campaign for its line of consumer electronics.

Publicity photos for the latest Google Nexus tablets and phones show each clock's time stamp set at 4:20. This includes the Nexus 4 (a smartphone), Nexus 7 (a "phablet") and Nexus 10 (a tablet). And the trend isn't limited to Google, either: The new Synaptics TouchPad Driver also sports 4:20 as the time listed in all of its setting windows.

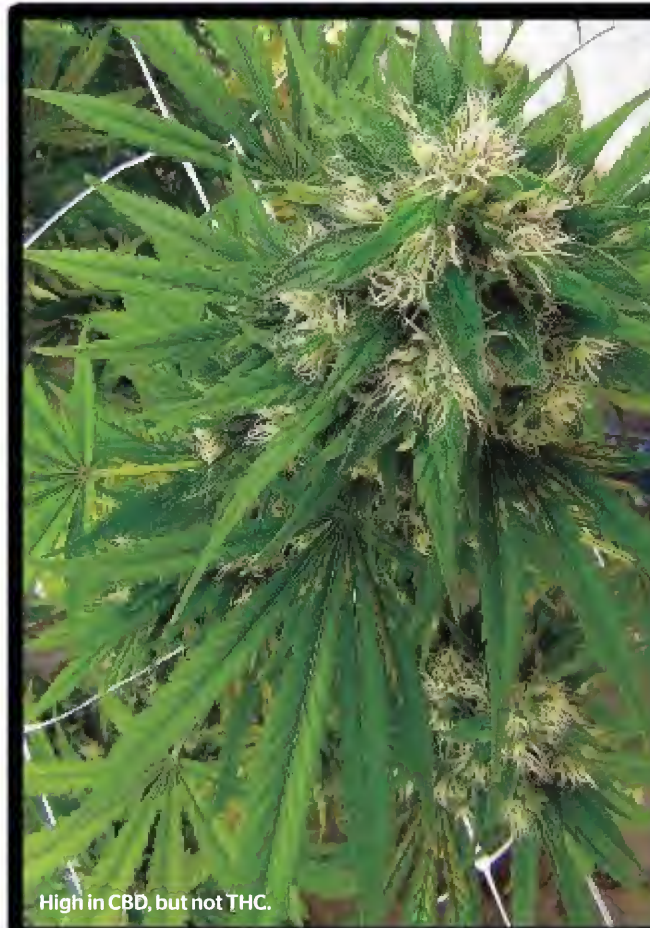


Buds and Brits

We have to give the majority of British citizens credit for remaining open-minded in the face of their tabloid press's relentlessly biased coverage of marijuana, the most widely used illegal drug in the UK. A brand-new poll from England's second-largest market research firm found that 53 percent favor either pot decriminalization (12 percent) or outright legalization (an impressive 41 percent) under three different scenarios of "control." Only 21 percent of Brits want to maintain the current laws, while 14 percent believe the punishments should be harsher. (Weirder still, 4 percent say they've never even *heard* of pot.) Plus an overwhelming number (67 percent) favor an independent review of the country's current drug policies.

Currently in the UK, pot is a Class B drug, which means those busted with it are subject to severe jail time and fines. In 2004, marijuana was rescheduled to Class C, the category for drugs with little potential for harm. But a media-manufactured hysteria over the dangers of "skunk" (the odd UK term for domestically cultivated high-potency pot) motivated British politicians to switch it back to the more heavily punished Class B in 2009.

The UK's tabloid press, led by the over-the-top, anti-pot coverage in the *Daily Mail*, continues to exploit the recent upsurge in cannabis-cultivation busts by police across the country, casting it as proof of a "drug epidemic." But the message's appeal is weakening as a new generation increasingly ignores these archaic "reefer madness" arguments.



A Literal Buzzkill

A higher percentage of THC in your bloodstream translates into a stronger buzz. However, high THC isn't for everybody.

A recent story on *Slate.com* addressed the idea of creating less stony strains. Andrew Maris, an analyst at Northwest Botanical Analysis, estimated it would take up to a year to create such a strain—but only if there's high enough demand. (Don't raise your hands all at once.) The key, Maris noted, would be in manipulating terpenes, the chemical compounds providing pot with its appetizing aroma.

The influential Harborside Collective recommends smoking pot rich in cannabidiol-CBD—the compound offering more healing than high, found in many "black" and "purple" strains. But if you're really serious about reducing your high, try some Israeli, lab-cooked cannabis known as "Avidekel." It's got 15.8 percent CBD and less than one measly percent of THC.

Stop the madness!

Blaming Pot—As Always

Two new studies suggest a correlation between drug use and dropping out of college. Guess what researchers have discovered? Pot makes you drop out of college.

But let's examine the research, which was published in the *Journal of Studies on Alcohol and Drugs*. Researchers at the Center on Young Adult Health and Development at the University of Maryland reported that students smoking pot 17 days or more a month were twice as likely to have a gap in their college enrollment history. They also postulated that students smoking 3-12 times monthly were also more likely to have a hole in their enrollment.

A second study, published by Psychiatric Services and funded by the heavily biased National Institute on Drug Abuse, found students who experience symptoms of depression and seek treatment during college might be at increased risk for an enrollment gap—especially if they use pot or other illegal drugs.

Now wait a minute! What about all of the other factors that might cause a student to postpone studies—like the astronomical costs of higher education? And why is pot being scapegoated for depression when the latest research indicates that cannabis, used medicinally, is actually an antidepressant?

Dr. Marc Galanter, director of the division of alcoholism and drug abuse at NYU Langone Medical Center and a professor at the NYU School of Medicine, offers a little bit of perspective: "The question is, do drugs cause the problem or are they a consequence of some other problem? Could it be depression that leads people to use drugs secondarily? It's not clear what's causal."

He also said, "The real serious drug problem is the painkillers—Percocet, Vicodin, OxyContin. There are a notable number of young people getting seriously addicted."

A Matter of Life and Dank

We all know pot is one of life's greatest highlights. Now some medical professionals in Australia are touting it as an aid to ease one's descent into "the clearing at the end of the path." In other words: Death.

Professor Michael Cousins,

director of the Pain Management Research Institute at Sydney's Royal North Shore Hospital told a parliamentary committee in New South Wales that terminally ill patients should have access to pot. (Studies on the use of psychedelic-assisted therapy, such as psilocybin mushrooms and LSD, to help the terminally ill cope with suffering and death have

been conducted for years.) The parliament of New South Wales is considering legalizing medical marijuana and Cousins stated to the committee that cannabis can provide pain relief and improve a dying patient's overall quality of life: "In view of the lack of options we currently have I think it's very important that we take advantage of this option."

HIGHWIRE

Dispatches from the international drug war. *By Bill Weinberg*



Crooked corps

Opium and Afghanistan

The horror show in Afghanistan only becomes more perverse, with the dope trade lurking behind every grim headline. In late February, President Hamid Karzai ordered all US Special Forces out of two provinces, charging that Afghan units under their command are guilty of torture, abuse and the disappearance of civilians. An investigation in Helmand province by the BBC's *Panorama* show found that Afghan national police trained by the US Marines there routinely engage in shocking abuses, including kidnapping civilians for ransom (under the thin guise of detaining suspected Taliban collaborators) and the sexual exploitation of children. The report also found a widespread use of cannabis, opium and heroin by the police. (Ironically, most of the complaints came from the Marines assigned to train them.)

Mexico and the "Disappeared"

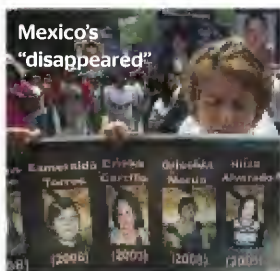
A new report highlighting Mexico's human rights crisis finds that security forces took part in kidnappings and disappearances over the six-year term of President Felipe Calderón, with the government failing to investigate most of these cases. As many as 70,000 people are believed to have met violent deaths during Calderón's militarized crackdown on the



Fighting Islamist dope lords in the Philippines

Al Qaeda-linked "narco-terrorists" in Borneo

In March, the Sultanate of Sulu, an autonomous kingdom within the Philippines, claimed that 10 members of its royal army were killed and four more injured in an attack by Malaysian forces on Lahad Datu, a village seized by the Sulu partisans in Malaysian Borneo. The violence followed a two-week standoff, with much speculation that the Sulu partisans could actually be members of the notorious Abu Sayyaf. The militant group—the Philippines' most extreme Islamist faction, and one that has been plausibly linked to Al Qaeda—is mostly based on the island of Sulu, where it is holding several hostages.



cartels, and according to statistics released by the Mexican government, as many as 25,000 people went missing during the same period. The Human Rights Watch report examined nearly 250 cases and determined that in 149 of them, state security forces—the military as well as federal and local police—were involved (sometimes in collaboration with narco-gangs). The report calls it "the most severe crisis of enforced disappearances in Latin America in decades."

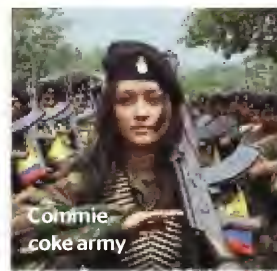
FARC: "We're Not Narcos"

In February, a leader of Colombia's largest guerrilla group, the FARC, proclaimed that the rebel army is not a

drug-trafficking organization. Rodrigo Granda, considered the FARC's foreign minister, spoke to the newspaper *El Colombiano* during recent Cuba-brokered peace talks in Havana. He insisted that the charge frequently made against the FARC—that it is merely a gang of narco-traffickers—"is a shame."

"We are an organization with clear political policy ideas, and for this reason the government is obliged to sit down and talk with us," Granda said.

Despite the talks in Havana, the fighting continues in Colombia's war zones. A February attack attributed to the FARC's 48th Front left one National Police agent and one civilian dead, and at least 13 more wounded, in the southern jungle region of Putumayo. FARC guerrillas allegedly threw explosive devices into a restaurant in the town of San Miguel, where the majority of the local police force was having lunch.



Medellin's Top Crime Boss Arrested

Panama announced the arrest of the top leader of the Oficina de Envigado, a Colombian crime syndicate said to be a surviving remnant of Pablo Escobar's notorious Medellín Cartel. Panamanian and Colombian police apprehended the suspect, identified only by his alias, "Pichi," at a luxury home in Panama City in a joint operation. He is accused of having ordered the murder of nine people—including three rival kingpins—in December at Envigado, a town on the southern outskirts of Medellín. Colombian authorities have also named him in the assassination of two police agents in Medellín in July of last year.

Pichi is said to have taken over the crime syndicate after the arrest of its former leader, "Sebastian," last year. Colombian President Juan Manuel Santos congratulated the National Police on Pichi's arrest via Twitter, calling the joint Colombian-Panamanian operation "a good hit."

Last month, Panamanian authorities arrested one of two twin brother kingpins known as "Los Mellos de Casandra," who controlled smuggling routes along Central America's Caribbean coast.

Israeli Soldiers Aid Legalization Party

Israel's election results came in late January, and some 8,500 absentee ballots—mostly cast by Israeli Defense Forces soldiers—went to the Ale Yarok (Green Leaf) party, famous for its pro-legalization platform. The party failed to cross the 2 percent threshold for gaining a Knesset seat, receiving only 1.15 percent of the popular vote. (Though if the Knesset was formed solely on the basis of the absentee vote, the party would have received four to five seats.) Ale Yarok's popularity among soldiers hit such heights that on Election Day, complaints reached the IDF's election headquarters that the party's ballot notes had run out in several military polling stations. ✨

For more updates, visit *Bill Weinberg's websites*, GlobalGanjaReport.com and WorldWar4Report.com.

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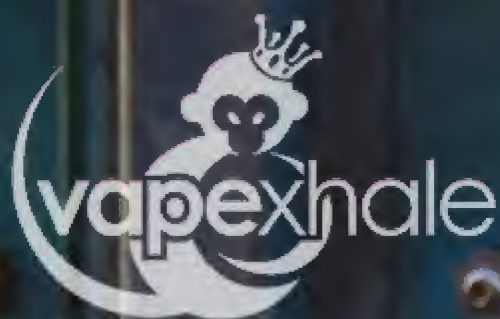


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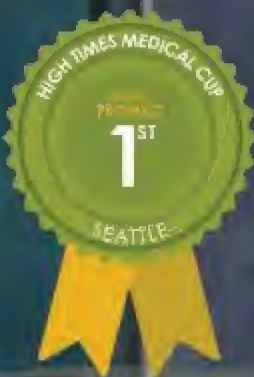
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Eddie relaxing with some Purple Afgoo poolside in L.A.

Huanging Out

Restaurateur, raconteur and *Fresh Off the Boat* author Eddie Huang talks about selling weed, hotboxing his bun shop, and what he'll do when pot is legal in New York. *By Elise McDonough*

Some people just don't give a fuck. Like notorious restaurateur and best-selling author Eddie Huang, who loves smoking weed and doesn't care who knows it.

In his hilarious, at times confrontational, new memoir, *Fresh Off the Boat*, Huang recounts his experiences growing up Chinese in South Florida, where he rejected mac-and-cheese and white-bread assimilation in favor of his mom's "stinky Taiwanese lunches" and 2Pac. And, oh yeah, long before he made it big in the food biz, Huang sold ganja to get over, an experience he credits with imparting valuable business skills that paid off big time later in life.

"Everybody already knows the main points about marijuana: that cigarettes are worse for you, alcohol is worse for you, and if you're going to allow those things, there's really not a legal high ground to stand on for why marijuana should not be legal."

"Word of mouth is so important to every business, but especially with weed," he explained to *High Times* during a particularly smoky stop on his book publicity tour. "You need to develop a customer base and make people loyal to you. It's super-personal." Motivating employees, managing inventory and conducting market research were

other skills honed while hustling herb in the Baked Apple. Huang recalls that the dankest Sour Diesel would go for big bucks in Brooklyn, while Manhattanites always wanted "super-exotic shit like LA Confidential" and "Queens would smoke anything." Asked about his personal head stash, he says he'll happily smoke "Headband and a few other

things that I really like, but Sour is my shit I used to get it directly from someone who was growing it. My shit was fluffy and sticky and it just *moved!*"

In addition to stints as a dealer in weed, sneakers and street wear, Huang also found time for a felony arrest, law school and a "lost year" spent working as an attorney before returning to his first love—food—by opening an authentic Chinese street-food restaurant on New York's Lower East Side. Ever since 2009, when Baohaus first began selling spicy pork buns and other dishes passed down from his mother and grandmother, Huang's outlaw antics and bold flavors



Huang hosts a hilarious food and travel show, also called *Fresh Off The Boat*.

« have made him a favorite among food bloggers, while his unique perspective on the immigrant experience earned him a 2013 TED fellowship (later rescinded after he skipped out on some panel discussions to shoot a podcast with porn star Asa Akira).

An inveterate risk-taker, Huang actually lost his restaurant Xiao Ye in 2010 after defiantly selling the newly prohibited caffeinated malt liquor Four Loko. He's just lucky that no cops came looking for steamed buns on the night that he and some friends spontaneously hot-boxed Baohaus after a night of partying.

"We had customers there, and I was like, 'I don't give a fuck, because this is my restaurant.' So I leaned over to the people sitting next to me and said, 'Yo, do you guys mind if we smoke weed in the restaurant?' And they're like, 'Can we smoke too?' And I was like, 'Yeah!' That's when I knew that I had customers I liked, you know, and so we lit it up and locked

"You know, I do discover a lot of flavor combinations when I'm high that I normally wouldn't."

the door. People kept knocking because they wanted to come in and eat, and we'd open the door periodically and say, 'Yo, you can get it to go or you can stay and smoke weed.' And people were like, 'Let's stay and smoke weed,' and before you knew it the restaurant was fucking full of people!"

Huang may be just a little ahead of his time when it comes to legalization (at least in New York), but he's sure it's the right thing to do, and he's ready to get involved.

"Everybody already knows the main points about marijuana: that cigarettes are worse for you, alcohol is worse for you, and if you're going to allow those things, there's really not a legal high ground to stand on for why marijuana should not be legal. Especially since it actually has benefits that those other things don't have. I

don't think anyone's glaucoma has gotten better from drinking beer."

New York State has legislation pending that would allow the use of medical marijuana, and if it passes, Huang says he's interested in starting a marijuana edibles line or a hip cannabis-infused ice-cream parlor/dispensary. "If you make ice cream with brownie chunks in the weed butter, that would be amazing!" he says. "I can't wait for it to be legalized in New York."

Naturally, running a restaurant, writing books, tweeting nonstop, and hosting a food-and-travel show on *Vice.com* can leave him pretty tense sometimes,

but he balances all of these endeavors with a healthy habit: using cannabis as a way to relieve stress and reflect on the day's activities.

"I smoke weed every day. If I don't have much to do, I get high during the day, but usually I smoke around 7:30, 8 p.m. to unwind. Really, that's my time to marinate and go through things step by step. It's an essential part of my day."

Besides helping him to flourish in a fast-paced lifestyle, Huang also credits cannabis as the catalyst for new recipes, explaining: "You know, I do discover a lot of flavor combinations when I'm high that I normally wouldn't. There are things that I will come up with, especially with our desserts—like my bread pudding that I make with baos [a traditional Chinese steamed dumpling]. I was high when I thought of that, because I wanted bread pudding for the next day and I didn't have bread, so I used baos.

"I think a lot of ideas for the dishes that I come up with happen when I'm high I have this recipe document on Google, and anytime I'm high, I'll have it open when I'm at the crib, and I just start plugging things in because I know that I'm going to get ideas. When you're high, you *wanna* think about food. I think about food and I think about sex, and that's pretty much it when I'm high I just wanna eat gummy bears and get a blow job." ✨

Wanna Huang out more with Eddie? Scan Here:



Check out the complete interview with Eddie Huang on hightimes.com.



Cheeto-Fried Chicken

Eddie Huang created this recipe for *The Official High Times Cannabis Cookbook* after a particularly stony session, saying "I didn't know how crazy it would get but everyone just went nuts for that fried chicken!"



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Black Congress (Left to right):
Bret Shirley, Michael Murland,
Dann Miller, Chris Ryan, Roy Mata

Space City

Houston hardcore thrashers Black Congress rest. *By Polly Watson*

When I first pitched a story on Black Congress, my editor wrote back: "I didn't know girls listened to that kind of music." Loud, raw and aggressive, veering between post-Jesus Lizard hardcore and pre-apocalypse dream grunge, these Houston broncs can't be tamed by the stinging whip of the easy label. They've shared the stage with local Tejas metal heroes The Sword, New York art freaks Japanther and Boston post-punk legends Mission of Burma, and they've diced it out at house-party ragers. The only "promotional" photo on their Facebook page shows the band at a backyard wedding bash, knocking back beers and looking totally uncomfortable in their tuxes and completely comfortable with one another. What girl *wouldn't* be interested?

And then, of course, there are the guys. *High Times* fought through a throng of plaid-shirted, tattooed XYs at a sticky, far-from-the-stars bar in Greenpoint, Brooklyn, to a back table where Black Congress had gathered, hours away from unleashing their first NYC riffs. Having failed

Ryan reminds Shirley about the time he ran into his own dad buying weed. "In the last few years, I've come to realize that my dad has been stoned the entire time that I've known him," Shirley laughs.

to realize that the window for their rooftop-sunset photo shoot was exactly 15 minutes, the band had hastily downed their just-ordered pints and were now fresh from a quarter-hour forced inhale. With David Allan Coe howling on the sound system and a gaggle of long-legged girls chirping excitedly over their Big Buck Hunter kills in the background, the band held forth only slightly unsteadily on what it's like to shred and smoke in the nation's largest red state.

Texas has "no tolerance," says guitarist Roy Mata, taking a swig of his beer. "We have friends who've been arrested for having a

one-hitter with residue in it," says Bret Shirley, the band's electronics wizard and other guitarist. "They were on their bikes and got pulled over. I've been riding my bike and been pulled over and searched." The hostile environment has had one benefit: It's fostered a diverse and friendly smoking community. "It's pretty social in Houston, buying weed. You meet a lot of people you'd never meet [otherwise] ... it's rad!" says vocalist Michael Murland. Drummer Chris Ryan agrees: "There's definitely the hangout etiquette."

Sometimes, though, the scene can get a little too small. Ryan reminds Shirley about the time he ran into his own dad buying weed. "In the last few years, I've come to realize that my dad has been stoned the entire time that I've known him," the guitarist laughs. Shirley began smoking when he was 12 and stole weed from his father the toker. "I was brazen enough to steal his pipe and not give it back, like he wouldn't notice. I got caught a year later smoking weed by him and my mom, and he played dumb as to why I would have his pipe."

Of the five, bassist Dann

Miller started the youngest: He was only in fourth grade when his older sister's friends dragged him behind some bushes in a backyard. "I didn't smoke continuously after those dickheads gave me a bong," Miller assures *HT*. "I didn't actually get cracking-up high until I was 19."

Weed still plays a big part in the band's lives, and in their sound. "It's not in any of the subject matter or anything like that," Murland says, "but we're all pretty stoned throughout practice. Having a mission, being able to let shit out—the weed helps that happen, for real."

How the mission is ignited is a matter of personal taste. Mata prefers edibles, while Shirley likes a joint. Ryan and Murland vote for a pipe. The childhood toker? "Shoot it up," Miller jokes.

"Wait," says Mata. "Can I change my answer to 'Hooping it'? Can I change my answer to 'Getting it out of the grinder and shoving it up my ass?'"

The digital-deer-hunting girls have dropped their weapons, and harsher tones have replaced country quaver on the PA. It's time to wrap up the interview, but first, Miller decides to award his bandmates their own strain names on the spot. "Bald Widow," he says, pointing at Shirley. Mata is Spanish Trampoline; Ryan, Norwegian Heat. "I'd be something like 'SSP-97,'" says Murland, pre-empting Miller. And the bassist? "Dour Dank!" Mata shouts.

Black Congress crack up. And then they get onstage and crack it open. ✨

For more on Black Congress, visit bandcamp.com/blackcongress.

No Nugs in Norway

Growing up in Norway, drummer Chris Ryan first tried hash before pot. "All they have is that super-good hash," he says, "so my first experience was a good one!" Was he disappointed with weed when he came to the US? "It was a different feeling," he says.



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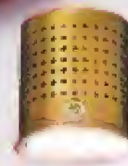
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Dennis the Menace

Born To Be Wild

The life and times of the hip Hopper.

Dennis Hopper believed in mottos. “Show Me the Stones the Builders Have Rejected for They Are the Cornerstones,” read one; “Kansas—Hollywood, Calif. Broken Bones but Raring’ to Go,” was another. Whether emblazoned on a fake church or a Ford pickup truck, the slogans underscored Hopper’s status as the quintessential nonconformist. And whenever he disrupted the status quo—by making anti-Hollywood movies or by ingesting a gazillion different controlled substances—he always made sure to announce it to the world via film, press release or public displays of incineration.

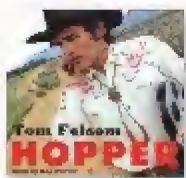
The actor, director, photographer and art collector began his ride in Dodge City, Kansas. He recalled sitting in a theater at age 5: “The world on the screen was the real world, and I felt as if my heart would explode I wanted so much to be a part of it.” Heading off to LA in the early ’50s, he was debuting in *Rebel Without a Cause* by ’55 with doomed movie-star *maudit* James Dean. After getting the bum’s rush from various Hollywood patriarchs, Hopper (with Peter Fonda and the great Terry Southern) wrote a

screenplay about two freaky coke dealers who take a road trip from LA to New Orleans. Hopper directed and co-starred in *Easy Rider*, one of the surprise hits of ’69 thanks to cannablissed young ’uns. The flick’s success gave him carte blanche in Tinseltown, but 1971’s *The Last Movie*—a thinking man’s blow-show—was too hip

even for so-called hippies, and Hopper was (as they say) finished in this town.

He eventually sobered up and continued to play edgy motherfuckers in movies like *Blue Velvet*, *River’s Edge* and *Paris Trout*, and he also made a buncha money-movies that kept his art collection expensive, before eventually croaking in 2010 of more or less natural causes.

Biographer Tom Folsom is the man to tell this tale: He’s a norm-stomper hisself and, like his forebears Hunter Thompson and Tom Wolfe, has a way with words and also makes good use of exclamation points. Go forth and read this book, break pointless rules and make art. *Michael Simmons*



Hopper
Tom Folsom
(It Books)

MUSIC RECOMMENDATIONS



The Meat Puppets
Rat Farm
(Megaforce Records)

➤ The third album since Curt Kirkwood reunited with brother Cris is the Pups’ best in a quarter-century, like an older, wiser, somewhat crunchier *Up On the Sun*. Bassist Cris and drummer Shandon Sahm build a tight, funky backbeat while Curt ambles between tuneful country-folk, power

pop and noisy cow-punk. It’s all pretty damn catchy, from the Big Star-ish jangle pop of “Down” and infectious roots-funk “Time and Money” to “Again,” which suggests the Moody Blues by way of The Band. Thirty-plus years into their career, The Pups are still topping themselves. *Chris Parker*



Herbcraft
The Astral Body Electric
(Woodstist)

➤ Herbcraft, the spawn of Maine psych seer Matt Lajoie, delivers an even better LP to trip to with *The Astral Body Electric*, which unifies retro German Krautrock and postmod Japanese psychedelia. Opener “Mother’s Gate (Shambhala)” is an apt entry point, segueing seamlessly into “A Knock at

the Door in Your Mind,” a 12-minute meltdown perfect for peaking. The freak-folk acoustics of “Impermanence” give pause before “No Land” resumes the acid test, while cosmic closer “Full Circle (Eternally)” conjoins Lajoie’s diffuse guitar with keyboardist Dawn Aquarius’s eddying organ. *Mark Miller*



Jello Biafra and the Guantanamo School of Medicine
White People and the Damage Done
(Alternative Tentacles)

➤ Right-wingers are fond of claiming that Obama is driving America to the left—but don’t tell that to Jello Biafra, as political as ever on *White People and the Damage Done*, the second LP by the punk singer/activist and his new quasi-Dead Kennedys backing band. “Shock-U-Py!” is an

anthem for the Occupy movement, and scheming bankers everywhere best steer clear of the mosh pit during “Werewolves of Wall Street.” The title track is a damning condemnation of Caucasians, while “Crap-ture” wishes that born-again Christians would leave the rest of us behind. *Mark Miller*

GAME RECOMMENDATIONS



Tomb Raider
Xbox 360, PS3, PC
(Crystal Dynamics)

➤ For anyone rebooting a classic like *Tomb Raider*, the expectations will be high. Luckily, developers Crystal Dynamics already know their way around Lara Croft, and their execution is near-perfect. Taking its cues from other third-person action-adventure games like the *Uncharted* and *Assassin’s*

Creed series, the game meshes modern mechanics with traditional *Tomb Raider* platforming. The game’s tone is grimmer, but that’s not the result of gritty reboot syndrome; instead, it tells a story of desperate survival and self-discovery. The only thing this game lacks? More tomb-raiding. *Tyler Stewart*

THEATER RECOMMENDATIONS



Hands On A Hard Body
Music by Trey Anastasio and Amanda Green
Book by Doug Wright

➤ Phish frontman Trey Anastasio ditches his jam band meanderings in favor of tightly knit, composed country and gospel tunes as he makes his Broadway debut this spring. Anastasio brings two previously performed tunes to life on stage with “My Problem Right There” and “Burn

That Bridge” which blend perfectly with the show’s themes of faith, fortitude and the hard luck quest for the American Dream. *Hands On A Hard Body* combines all the best talent and to borrow a line about the show’s lead character (a red Nissan truck): This Ride Is Bona Fide! *Jen Bernstein*

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An "herbal" salad

MUNCHIES

Greener Greens

Bump that summer salad up a notch.

It's summertime, and the cookin' is easy—or should be! No matter if you have kids off at camp, love the longer days for weekend warring, or are simply enjoying the heck out of your own or your friendly neighbor's barbecue, fast, fresh foods are the heart of summer cuisine. And pairing them with the summer mellow of herbal cannabis bliss?

Sublime. Let the sunshine in!

There have been a lot of additions to and variations on the original Waldorf Salad since it was created in the late 1800s in the famed New York City hotel, but this definitely has to be my favorite. Yes, the medicated aspect is a big factor, but the way that the light marijuana flavors play off the spices used in this particular dressing is a mouthwatering experience (which will be a big benefit once the cottonmouth kicks in).

Barbecued chicken breast fresh off the grill makes this summery salad into a hearty, heart-healthy meal, and don't be surprised if this becomes one of your most requested side dishes (that caution comes from experience). At least it's one you'll be enjoying too, and the props you get will be the dressing on the greens.

Mary Ought Six

EMERALD WALDORF SALAD

1 cup walnut halves
1 celery heart, greens on, cleaned and chopped
½ Walla Walla onion, sliced thin
1 cup seedless grapes, split in half
2 Gala apples, cored and chopped
1 lemon, juiced
3 tbsp raw honey
2 tbsp raw apple-cider vinegar
¼ tsp ground cardamom
¼ tsp ground cinnamon
¼ tsp freshly grated nutmeg (optional)
2 tbsp fresh dill, chopped fine
2 tsp Dijon mustard
¼ cup extra-virgin olive oil
3 to 4 grams cannabis, ground fine
2 to 3 tbsp Greek yogurt
1 head butter lettuce
Salt and pepper to taste

extra-virgin ganja oil to the side to cool completely.

Next, toast and toss the walnuts in a skillet over medium heat until their aroma begins to blossom and the nuts to crisp, around five to six minutes. Set aside to cool. Combine the walnuts, celery, onions, grapes and apple chunks in a medium-size bowl. Whisk the honey, lemon juice, vinegar, cinnamon, nutmeg, cardamom, dill and mustard together. Now whisk the cooled and activated olive oil into the mix in a slow stream. When the oil is incorporated, stir in the Greek yogurt until everything is well combined, then season the dressing with salt and pepper.

Place the extra-virgin olive oil in a double boiler over low heat and slowly stir in the ground cannabis. Keep the heat *low* and cover, only uncovering occasionally to stir or if you smell any sort of toastiness coming from the marijuana (if any odor indicates burning, immediately remove from heat and set aside); 30 to 45 minutes will normally suffice. Strain out the vegetable matter using cheesecloth and put the

Mix this mother of all salads together, adjusting the salt and pepper if needed, then serve and enjoy! When plating, use two or three leaves of the butter lettuce to create an attractive presentation and add that extra *oomph* of emerald to complete your summer masterpiece. *Stones 4.*

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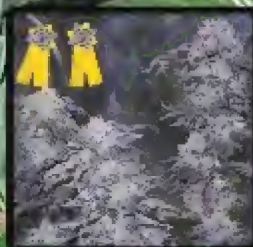
GSPOT



Burmese



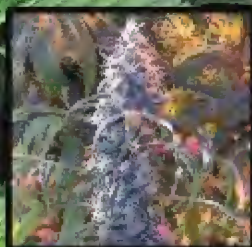
Blackberry



Gold



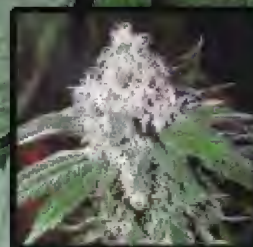
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Mother



British Columbian



Kat

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► Medical Strain of the Month



Trainwreck

These days, you hear a lot of talk about how the “cutting edge” of cannabis breeding and propagation has shifted from Northern California to Colorado. And with legalization already the law of the land in the Rocky Mountain State, and with retail stores for recreational marijuana set to open in 2014, this trend will likely only accelerate in the near future—when, after many decades spent working underground and outside the law, the botanical geniuses who know the pot genus best will at last be free to get down and dirty for some serious research and development.

Great ganja minds are already gathering in Denver (and Seattle, and anywhere else legalization is taking root), hoping to create the next elite strain that brings joy and relief to millions. Which means those with a proven track record should have no trouble finding investors looking to make a mint by getting in on the ground floor of the next Trainwreck. But what about the folks who bred the original Trainwreck, which *High Times* senior cultivation editor Danny Danko calls “the pride of Arcata, CA”?

That’s in the heart of Humboldt County, by the

way, which itself is the heart of Northern Cali’s famed Emerald Triangle. Back in the 1960s and ’70s, a bunch of back-to-the-landers and outlaws up there bred the first modern marijuana hybrids, crossing *sativas* from Mexico, Colombia, Vietnam and Thailand with *indica* seeds smuggled back from India, Nepal and Afghanistan by wandering hippies.

Today, that tradition continues, with many third-generation ganja breeders hard at work in the field. They may not be the cutting edge of the bud-breeding universe anymore, since their work remains underground and largely uncredited, but they’ll always be its heart and soul.

So here’s to Trainwreck, an Afghani x [Lowland Thai x Mexican/Colombian] cross that flowers in eight to nine weeks, yielding stout, resin-soaked buds with large, tight calyxes and the smell and taste of sage. Trainwreck’s high soothes both body and mind, and it also boasts strongly medicinal benefits for those suffering from chronic pain and the spasms associated with multiple sclerosis. So the next time the opportunity avails, light some up and transport yourself to the hills of Humboldt! *David Bienenstock*

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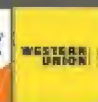
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4

Hot Products

What's new for cannabis cultivators and connoisseurs.

1 Sticky No More

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nogoanonstick.com

Whether you call them *dabs*, *shatter*, *BHO*, *globs* or *wax*, concentrates are some of the stickiest products around. Luckily, the new “concentainers” from NoGoo are the first non-stick containers for concentrates made with FDA-approved food-grade materials. Plus they’re reusable as well as microwave-, freezer- and dishwasher-safe. You’ll save money—and oil!

2 Sherlock Bowls

\$99.99
headshopstop.com

Finding a versatile piece for smoking *and* dabbing can be a daunting task. We love the new Alpine Glass Showerhead Sherlock Pipe, which converts quickly from herb to concentrates and comes with a cool glass dish and dabber to boot. Also, the “dual circ perc” unit is easy to clean as well as compact and discreet for the best experience puffing flowers or goo.

3 Electric Avenue

\$349
electrodabber.com

Not everyone wants to bust out a flaming torch every time they smoke hash oil. Enter the new Electro Dobber, an all-in-one kit that heats up electronically and stays hot for as long as you need. The kit comes complete with a container, adapters, a titanium nail and a stainless-steel heating element, all in an odor-proof hard-shell case.

4 Bee Happy

\$34.99
buzznn.ca

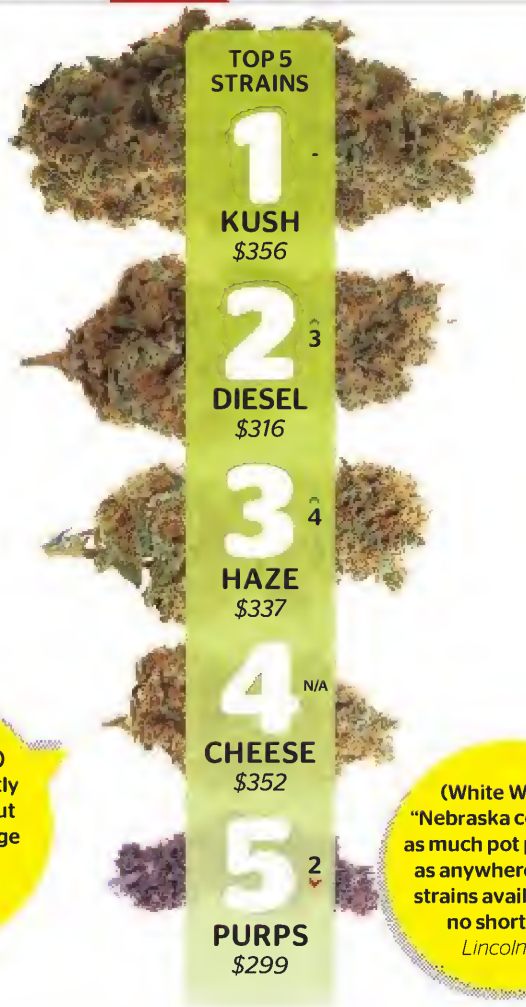
Making your own concentrated hash oil can be rewarding if you do it correctly. Now the Queen Bee Extractor from Honey Bee simplifies the process and can be filled with up to 100 grams of leaf trim or buds. At 9½” tall and 2½” in diameter, this tube can handle plenty of material. Remember to use extreme caution and always blast outdoors in a place with proper air circulation.

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Springfield, MO

(White Widow)
"Nebraska consumes as much pot per capita as anywhere. Lots of strains available and no shortage."
Lincoln, NE

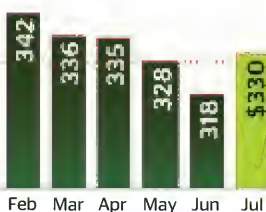
MARKET ANALYSIS

Prices by the ounce

Index Watch: The US Price and Kind indices rebounded from last month as both finished July above their June averages (+\$12 and +\$10 respectively). However, the Kind Index remains below its year-to-date average. The Schwag Index established a new high for 2013 at \$125 an ounce.

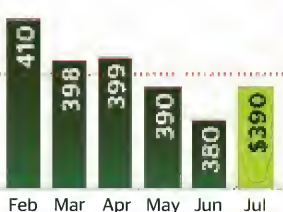
US Price Index

YTD Average: \$328



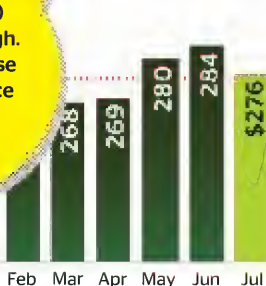
Kind Index

YTD Average: \$394



Mids Index

YTD Average: \$275



Schwag Index

YTD Average: \$104



(Lemon Haze)
"Great body high. Perfect for those who experience joint pain."
Meridian, MS

TRANS HIGH MARKET QUOTATIONS

STATE	CITY	STRAIN	PRICE
Arizona	Tucson	Girl Scout Cookies	\$450
California	Los Angeles	Sour Haze	340
		Holy Grail OG	320
	Monterey San Francisco	LA Confidential	350
		Maui Diesel	200
		Girl Scout Cookies	300
Colorado	Denver	Weed	150
Colorado	Denver	Banana Kush	280
		Tahoe OG	325
		Kryptonite	260
Delaware	Newark	Blue Cheese	350
	Pike Creek	Sour Jack Vanilla Kush	350 350
Florida	Jacksonville Orlando	Mango Haze The Flav	400 400
Hawaii	Maui	Super Lemon Haze	400
Indiana	Indianapolis	Chocolope	420
Kentucky	Louisville	Charlie Sheen	375
Maryland	Baltimore	Sour Diesel Maui Wowie Grapefruit	325 350 375
Massachusetts	Boston	East Coast Sour Diesel	400
	Brockton	Purple Kush	350
Michigan	Detroit	Purple Haze	275
Minnesota	Winona	Diesel	350
Mississippi	Macon	Afghan Kush	300
	Meridian	Lemon Haze	325
Missouri	Springfield	Durban Poison	350
	St. Joseph	OG Kush	400
		Blue Cheese	450
Nebraska	Lincoln	Blue Dream White Widow	350 300
New Jersey	Newark	Super Silver Haze	400
New York	Buffalo	Cheese	320
	New York	Guava Chem	420
North Carolina	Charlotte Salisbury	Kosher Kush	480
		Cotton Candy	400
Oregon	Portland	Cheese	220
Tennessee	Nashville	White Widow	480
Virginia	Richmond	Northern Lights	300
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Wisconsin	Madison	Blueberry	400
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A large, bushy indoor marijuana plant with many green leaves and developing buds, growing in a grow room. The plant is the central focus of the image. The background is a plain, light-colored wall.

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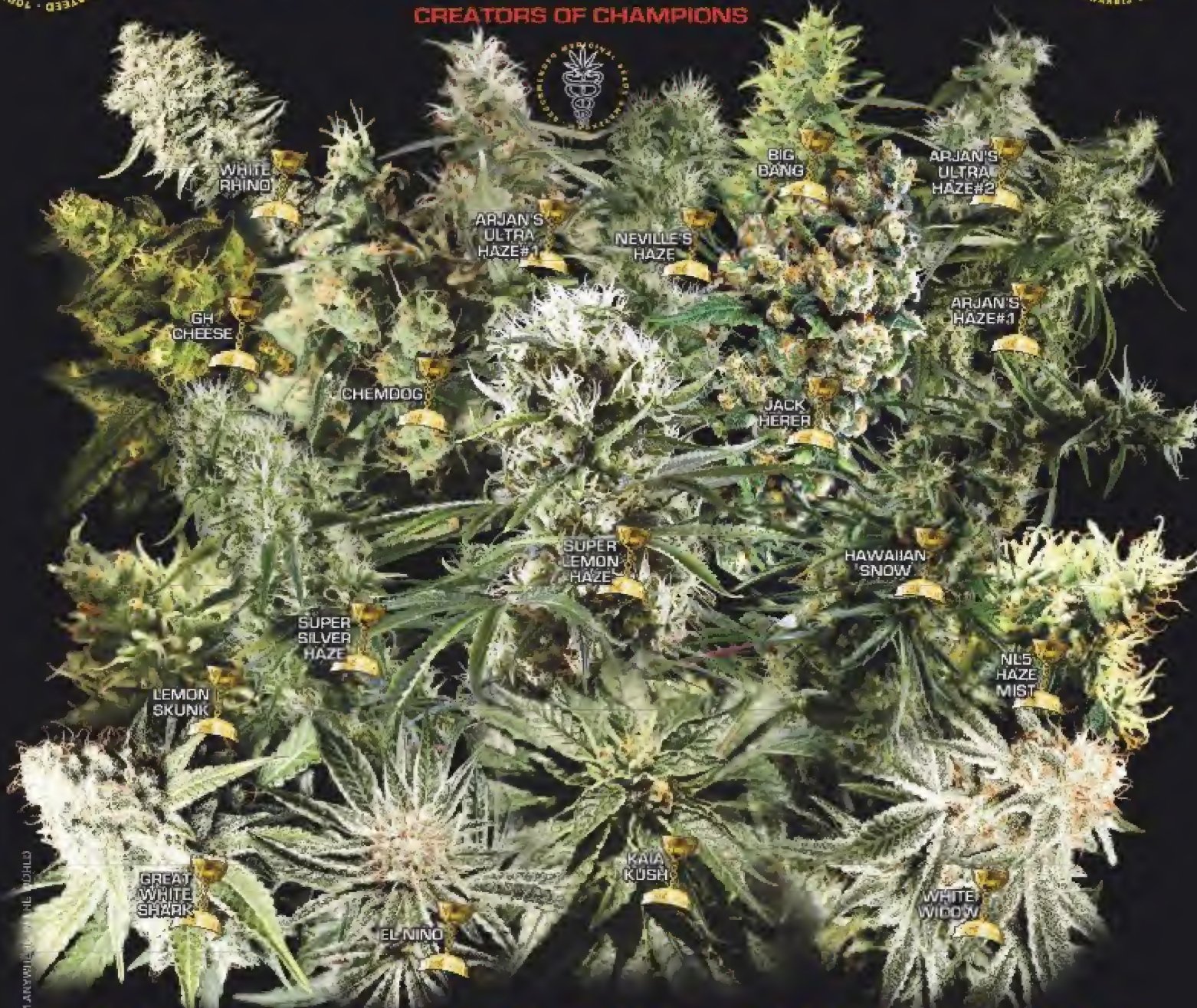
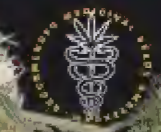


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Beginner Grow Basics

Simple and efficient methods to get up and growing now. *Story & photos by Nico Escondido*

Starting in 1996 with California's Proposition 215, the opportunity for patients to grow marijuana legally became a real possibility. Today, there are 18 states with medical marijuana laws (as well as Washington, DC), and in more than half of those states, patients and caregivers can grow their own cannabis.

In 2012, the United States welcomed the advent of marijuana legalization for recreational use in two states (Colorado and Washington), and with it comes

the real possibility for *any* adult to grow marijuana legally—as well as the happy prospect that one day in the not-too-distant future, there will be many more states following in Colorado's and Washington's brave footsteps, leading to legal avenues for the masses to cultivate marijuana in their very own homes as readily as they could a tomato plant or apple tree in their backyards.

But this beautiful scenario comes with a lot of questions. Many casual smokers are now asking exactly how one might go about setting up a home

garden in a quick and easy fashion. And because marijuana smokers tend to like a year-round supply (one that is not readily available at the grocery store like many vegetables are), the questions on how to get growing at home often tend toward the indoor-garden variety. Luckily, growing cannabis is not any more difficult than growing tomatoes. In fact, growing cannabis can be quite easy, and the answer to nearly all concerns about home growing can be summed up in three little words: *Keep it simple.*



Simple top-feed stake emitters are great for small gardens.

Keeping It Simple

The first question on every would-be indoor grower's mind is what type of system to use. System types incorporate many aspects of horticulture, from the choice of medium and container sizes to feeding and irrigation programs. Let's start with the most basic aspect of cultivation: the grow medium.

In order to keep things simple, we need look no further than Mother Nature herself. In nature, plants most often grow in soil, and growing plants indoors doesn't mean we need to deviate from nature's plan. In fact, the horticulture industry has excellent peat- and sphagnum-based soils tailored specifically for indoor gardens, and these "soilless" mediums act and feel just like earth soils found outdoors—with the added benefit that they are extremely easy to use.

These mediums, which come in popular brand names such as Pro-Mix or Sunshine Mix, often feature soil textures created by a peat or sphagnum base, but they also have added ingredients to aid in moisture retention and air permeation. Additional components in these mixes may include wood chips, perlite and vermiculate, as well as trace amounts of the basic nutrients needed to get young plants started off right.

The primary benefit of using these types of soilless mixes is that they are very forgiving mediums for new growers to work with, offering excellent buffering for root systems to help prevent nutrient shock from overfeeding. They also retain water well and are perfect for smaller gardens, where watering plants by hand is usually preferred. Additionally, soilless-mix mediums can easily be used in conjunction with quite a few different automated water systems.



This garden is about the size of a walk-in closet and can easily hold 20 small plants.



Irrigation and Feeding

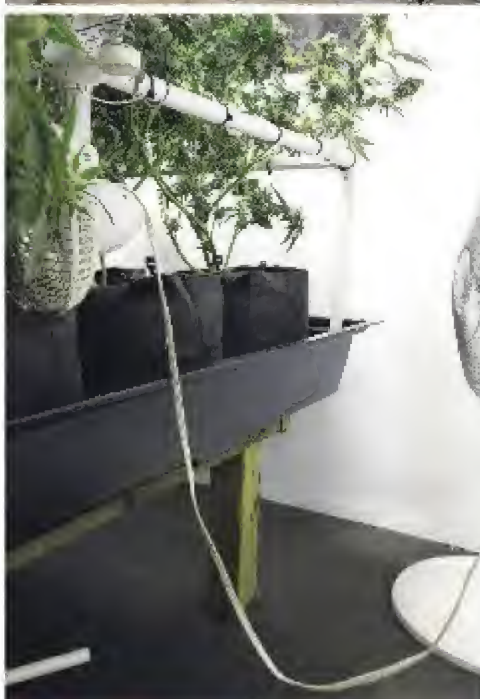
The simplest way to water small gardens is to do it manually. Hand-watering plants is a good way to get to know your garden and environment intimately, and it can also help new growers begin to identify and learn about mineral deficiencies and pest problems.

Still, some growers prefer to automate their irrigation. The main reason for this may be that the garden is too tight to get into or navigate easily, or too large to do it by hand, or because the grower is not around the garden often enough to provide regular hand-watering. In these cases, the hydroponics industry offers many possible solutions, but not all of them are easy to use.

Perhaps the most popular (and one of the easiest) automated watering systems is a simple top-feed irrigation system that utilizes basic stake emitters to water individual plant containers. These systems generally take water or a nutrient-enriched solution from the reservoir to the garden site via half-inch or 1-inch flexible hosing. Once the main line reaches the garden, the hose is siphoned using thin spaghetti lines to deliver water to each plant site. These spaghetti lines easily attach to either drip or spray emitters that sit on top of plastic stakes stuck into the grow medium.

Many growers prefer to use spray emitters over drip emitters because they offer a more even saturation of the medium and thus allow better absorption rates without creating puddles and sinkholes. It is also worth noting that these systems are excellent for low-impact feeding regimens, in which growers use the absolute minimum required nutrients to feed their gardens. This is because, if you're using spaghetti lines and spray emitters, excess mineral deposits can build up and clog both the line and the emitters when too much fertilizer is dissolved in the reservoir.

Instead, as mentioned, many new growers—and even master growers—prefer to take a minimalist approach to feeding, watering their gardens only once a day for a few minutes at a time and also rotating the feeding regimen. With a simple three-day rotation, growers can feed the garden with a nutrient solution on day one, then empty the reservoir and refill it with fresh, distilled water for a clean watering on day two, and then give the plants a day off on day three. This basic watering and feeding system ensures that plants get their essential minerals on the first day, then a good, clean flush to prevent buildups on the second, and then a good drying-out period on the third to allow air and oxygen to permeate the medium and get to the roots, which rely heavily on oxygen to help transport nutrients up into the plant.



Notes on Nutrients

Plants respond to inadequate supplies of essential minerals by displaying characteristic symptoms of deficiency. These symptoms can be wide-ranging, from discoloration of the leaves to physical deformities to a complete wilting of the plant.

Conversely, plants will respond to an overabundance of nutrients in similar ways. However, these conditions may take longer to notice and can be misleading, as overfeeding plants may result in an unseen “lock-up” at the root level. When this happens, salts from the excess nutrients build up in the medium and block mineral uptake by the roots, thereby starving the plant. The result is a plant that looks malnourished—but the cause isn't a lack of nutrients; it's actually over-feeding.

So what are the lessons to be learned here? First, it should be obvious that feeding programs require careful attention, as it is a delicate balance between giving your plants too much and too little. Second, it is clearly better to underfeed than to overfeed your garden, since you can always increase nutrient doses when a deficiency of minerals occurs—but it is much harder to alleviate the problems caused by excess feeding.

With this in mind, many new nutrient lines (such as the Pure Essentials Black Label nutes used for the growrooms featured in this article) are adopting a more minimalist approach when it comes to nutrient programs. This not only caters to new growers, since it has less potential for causing serious, even disastrous problems via overfeeding, but it also creates a feeding regimen that is easy for anyone to understand and implement.

Growers who use nutrient programs containing more than two or three parts are generally veterans who are well versed in mixing multiple parts and taking careful readings from their reservoirs to ensure that the nutrient solution has the proper pH and EC (electrical conductivity) or ppm levels. Still, whether you're a beginner or a seasoned pro, keeping the N-P-K (nitrogen-phosphorus-potassium) ratios low is always the best bet for superior quality. It's the large-scale commercial growers who generally like to pump up the nutrient values in order to increase yields—but this slight increase in weight often equals a bigger decrease in quality.

From top: A simple net trellis system with top-feed lines direct into rockwool below; always keep plants off the floor and in table trays; place reservoirs outside of the growroom if possible.

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Lighting Basics

The last major factor to a quick-start grow is determining what type of lighting your garden needs. These days, there are so many choices that deciding among the alternatives can be a daunting task (as well as a big turn-off for would-be growers). Do not let this be the case for you! Lighting can be done on the cheap and quite easily.

While plants will grow under almost any horticultural light, there are still some choices that are better than the rest. Though inexpensive lights such as fluorescent bulbs offer an excellent spectrum, run cool and use little electricity, these lamps are best suited for young seedlings or clones, or for plants that are

the spectrum. These color frequencies carry the highest amount of light energy (in the form of photons), thereby supplying your plants with more energy for photosynthesis.

Still, keep in mind that it isn't hard to buy both an MH and HPS bulb and simply swap out one for the other when your garden flips from its vegetative stage to the flowering cycle. The only real consideration here is that it will obviously cost a little more money to buy two bulbs, and you will need to make sure the ballast for your lamp is equipped to handle both types. (Usually, dual-bulb ballasts have a switch that you flip when you change from an MH to an HPS bulb or vice versa).



Perhaps the toughest decision today is which ballasts are best for your bulbs.

Ballasts for Beginners

To provide a quick rundown on the subject of ballasts for the uninitiated: There are two main types that fire up and power HID bulbs. The older generation, known as core-and-coil or magnetic ballasts, are bulkier and heavier by weight, give off more heat, and are generally less efficient in their consumption of electricity. The newer generation is known as either electronic or digital ballasts, and they boast all of the features that magnetic ballasts do not: They are energy-efficient, run quiet and cool, and give off less heat. However, there is one big problem with the newer electronic and digital ballasts.

Unfortunately, light bulbs and ballasts are most often not manufactured by the same company. Because of this, the bulbs have historically been made to match the specifications of the older magnetic ballasts. When the newer electronic and digital ballasts came to market, they were designed to run at much higher electrical frequencies (approximately 20,000 hertz) than magnetic ballasts (approximately 60 hertz). The real problem is that nearly all standard HID bulbs, such as those made by industry giants like Sun Master, Hortilux and Phillips, also run at this much lower frequency.

So what does this mean for you, the budding marijuana grower? It means that if you buy any standard HID bulb and try to run it on an electronic or digital ballast, its lifespan will be cut nearly in half—and that's an expense that can add up quickly. This occurs because the higher frequencies of electronic and digital ballasts create what is known as "acoustic resonance" within the inner arc tube of the bulbs, thereby rupturing it and causing the bulbs to burn out at nearly twice their usual rate. Even worse, the human eye will not be able to detect the ongoing loss of light intensity without a light meter—and by the time it is noticeable, growers may have lost quite a bit in yield over their past few cycles. Furthermore, the acoustic resonance can also rupture these bulbs' end caps, releasing sodium and mercury gases all over the buds you may be smoking in a few short weeks!

So what's the answer? Simply put, you have three choices. You can continue using HID bulbs in electronic and digital ballasts—and likely continue having to buy new bulbs at a much faster rate. Or you can play it safe and use the standard magnetic ballasts with HID bulbs—which may be the best option for new growers with smaller gardens. Or you can hunt for digital HID bulbs that are compatible with today's newer electronic and digital ballasts—but good luck with that, as these types of bulbs are very hard to find at your local hydro shop.

For more info on digital bulbs, check out the two popular lines from Sun Pulse and Gavita.



Four lamps and two tables in a small space equals? Six pounds!

just hanging out in a vegetative state.

For quality results and happy, healthy gardens, the best choice for new and expert growers alike is to use high-intensity discharge (HID) lamps. These come in a variety of types, but for indoor horticulture, there are two main kinds: metal halide (MH) bulbs, which are generally used during the vegetative growth stage, and high-pressure sodium (HPS) bulbs, which are generally used during the flowering stage.

If you're a small grower raising only a few plants or a closet-style grow and prefer to use only one type of bulb, the best choice is HPS, as it emits a much heavier amount of light in the red/orange wavelengths of

Smaller closet grows will only need a 125-watt or 250-watt bulb to get the job done and keep heat and expenses down. A large garden in a small bedroom-size space may need two to four lamps to provide ample coverage, and their bulbs will likely range from 400 to 600 watts. Larger 1,000-watt bulbs are actually the least efficient in terms of power consumption and are generally reserved for large-scale commercial operations.

Keep in mind that whatever your situation, growing your own cannabis should never be stressful. Stay cool, keep it simple and affordable, and most importantly, enjoy your time in the garden—as well as your time outside of it—with your own homegrown highness! 🌿

Watch video grow tips from Nico here: hightimes.com/nicogrows





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Generation

By forging a new concentrate culture within the existing cannabis community and establishing 710 (OIL upside down) as the new 420, millennials are making marijuana their own and ushering in a new pot-smoking paradigm. *By Bobby Black*



Miss High Times 2007 and two-time cover girl Sarah Newton gets her dab on.

Dab

A sharp tongue of blue flame licks the titanium as a plump glob of wax awaits above, then drips from the tip of the dabber and plops onto the domeless nail's fading crimson glow, where it's instantaneously liquefied and vaporized. A sudden burst of smoke is drawn through tiny holes in the nail's head and into our model's eager lungs. It's a ritual that's repeated time after time at booth after booth within the Prop. 215 area of our Los Angeles Medical Cannabis Cup. There's nary a seed company, dispensary or retailer in attendance that doesn't have a dab station set up or an extract entered into the competition—38 solvent-based concentrates in all, nearly maxing out the category and all but eclipsing the nine water-hash entries. Every glass company at the expo has rigs on display, and nearly every clothing company some T-shirt with an oil-based slogan or design. This is the state of the modern cannabis community. This is the dab life.

To many in this up-and-coming generation of young stoners, smoking “flowers” (as weed is now referred to) is fast becoming passé—a quaint custom practiced by hippies, lightweights and the socio-geographically disadvantaged. For hardcore oilheads, “treebasing” has raised their THC tolerance to the point where a joint just doesn't cut it—they want a quicker, longer and stronger high than mere marijuana can provide. As word of this new way of getting stoned continues to spread and the demand for BHO grows, the market begins to respond: One-hitters are replaced by vapor pens, butane is bought in bulk, and sales of crème brûlée torches skyrocket. Apparently, even major retailers are beginning to get wise.

“I was in Bed Bath & Beyond last week, and they had torches, turkey basters and Pyrex dishes all on display next to each other,” swears Hitman Glass founder Dougie Fresh. “Isn't that crazy? Either they have some kind of inventory software telling them what items people buy together, or somebody working there knows what's up!”

But blowtorches and butane aren't the only things in short supply these days.

“Trim is so hard to come by ... it's the most valuable thing right now,” a representative from Cheeba Chews tells me. “We can't even get trim to make our edibles.”

“Forget trim,” one breeder says. “People are ripping whole growrooms down and just blasting them.”

That's right: In some circles, pot plants are now regarded as nothing but raw material to be transformed into a variety of waxes, oils and shatters—concentrates that are more potent and profitable, and easier to conceal and consume. As the focus of pot nerds everywhere slowly shifts from botany to chemistry, so shifts the spotlight from growers to the modern-day alchemists known as extract artists, who can transform a pile of leftover leaf into taffy-esque, translucent gold.

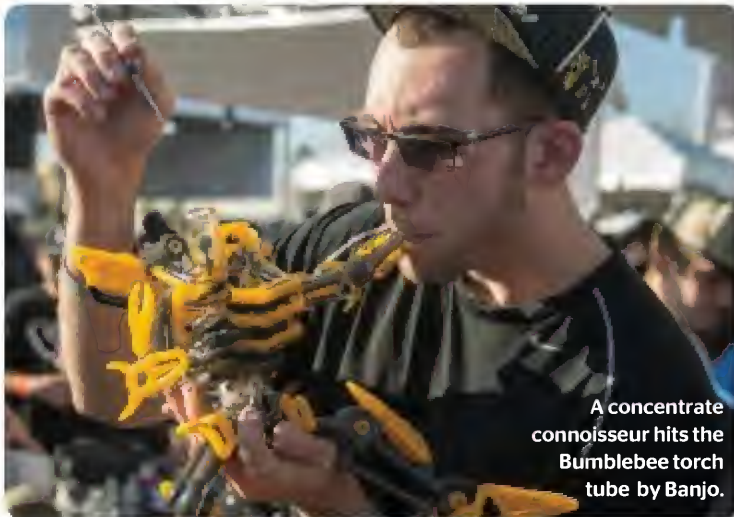
Puff n Dabs' custom-made hand torches—each unique and signed by graffiti artist E-Merge—illustrate the exploding popularity of concentrate culture.



The unfortunate slang term that's arisen for this process is, as mentioned above, *blasting*—unfortunate because, though it refers to “blasting” the essential oils out of the herb with butane gas, it's also eerily appropriate in describing the explosive accidents that occur when the process isn't done safely. But accidents like those are almost unheard of among the pros, who prefer the less dramatic terms “running” or “processing” flowers. These gurus of goo take every precaution, carefully controlling each variable, tweaking temperatures and monitoring pressures to ensure that their final product is exactly what they intended and suitable for consumption by the patients they serve. For them, quality is key, and it begins with the raw material.

“We use what our clients give us, which is typically trim for cost-effectiveness,” says Nikka T, a consummate concentrate maker from Denver. “But we prefer fresh-frozen buds, which we've been getting more often recently.”

Frozen buds? That's right—apparently freezing the weed before processing it helps keep the butane in liquid form, enabling the savvy concentrate maker to extract more cannabinoids and terpenes and less wax. In an effort to get the cleanest concentrates possible, many extract artists also freeze their budders and waxes after the initial butane purge in a process called *winterization*. By “washing” the extract in a secondary solvent (typically alcohol) and then freezing it, they not only remove any final traces of butane, but also the starchy bio-waste (lipids, fats and waxes), creating a clearer concentrate



A concentrate connoisseur hits the Bumblebee torch tube by Banjo.

known as *glass*, *shatter* or *snap*. (For more details about winterization and washes, turn to pg. 72.)

"This is in everybody's wax," says Jerett, the cherubic extraction expert from West Coast Cure with the McDabber's hatpin, as he compares a wad of ugly goop to the amber glass he pulled it from. He drops it onto the nail of the Big Lebowski torch tube on the table in front of us, and an acrid smoke pours forth. "That's what you're smoking when you smoke wax," he adds.

While eliminating these elements technically makes the concentrate purer, some believe that it also eliminates textures, aromas and flavors (via terpenes) that many people find desirable.

"Purity isn't everything," says Dan de Sailles of Denver's Top Shelf Extracts. He has a point—moonshine is purer than Cognac, but which would you rather drink? "Besides, if you're smoking flowers, you're already ingesting all of those fats and waxes anyway," he continues. "So smoking a wax or budder is no more harmful to you than smoking a joint."

Often, a concentrate's interesting texture is part of its appeal. For example, the Alien OG "Raw" pictured in "Contact High" on pg. 15: This fluffy, off-white extract, whose consistency resembles Funyuns or cheese puffs, was brewed up using an undisclosed technique by an extract artist who takes his name from that most hated of all *Star Wars* characters, Jar Jar Binks. If handled, this "Heisenberg hash" quickly disintegrates into a sparkly sand; when heated, its aeration is released and it shrivels like a Shrinky Dink into a tiny worm of wax. Then there's *sha-budder*, a full, winterized shatter that's been placed on low heat, allowing it over time to become budder-like again without having to be whipped. Generally speaking, a concentrate's consistency is just a result of how much moisture it contains. Which is why, when you leave

DABBER DOTCOMS by Sean Black

Mirroring the rising (though somewhat controversial) popularity of marijuana concentrates, websites and social-media groups based on the world of dabbing are quickly cropping up across the Internet. Here are a few of the top sites that serve to illuminate the world of concentrates and allow like-minded globbers across the globe to share photos, ideas and techniques.

DABBERSDAILY.COM

Dabbers Daily is a sharp-looking new BHO website, with a focus on the heady glass used to smoke it. It features an extensive community forum, its own Instagram feed/gallery and some great videos of heady oil glass, as well as a short FAQ section. And with its clickable categories, users can conveniently sort content based on specific topics and interests.

GOTDABS.COM

Hailing themselves as "The #1 Dab Site on the Net," Got Dabs is a one-stop shop for people just learning about dabs. The site aims to educate as many people as possible about the dab movement, including a "Dab Dictionary" page for those unfamiliar with the basic terms, as well as *GotDabs.TV*—a nice collection of videos on dabbing and cannabis events (like the High Times Cannabis Cups)—and an online store with dab apparel and accessories.

THE GREAT GLOB SOCIETY

The Great Glob Society is a well-known Facebook group for devoted dabbers. Founded by Kati Jane, our Miss High Times July 2010, GGS boasts several thousand members hailing from five countries and all 50 states. Whether on their page, in video chats or attending cannabis conventions, the group serves as a

meeting ground for exploring the evolving culture of concentrates and spending time with like-minded dabbers. With their motto of "A little dab will do ya, but a glob will do ya even better!", GGS members and their distinctive black-and-gold standards have become a familiar sight at pot events across the country.

PRANKDAB.COM

Using humor to expose bad techniques and poorly made meds via hundreds of user-submitted videos, Prank Dab has become the popular spot for sharing controversial and eye-opening real-life footage. Coining terms like *fail-tech* and *BHOtard* has helped educate the public on what unacceptable methods and subpar concentrates look like. Assuming one adheres to the "don't try this at home" caveat, Prank Dab offers extensive examples of dabbing don'ts—and lots of laughs to boot.

SKUNKPHARMRESEARCH.COM

Skunk Pharm Research is a trusted source of online information pertaining to the cannabis world. In their section on BHO extracts, they demonstrate a wide variety of techniques (as well as the varying degrees of difficulty and equipment required), and also touch upon some basic chemistry principles to explain the processes.

The Various Textures of Extracts



HONEY OIL / OIL

Goopy, unprocessed concentrate with the consistency of thick, sticky liquid.



BUDDER

Hash oil that has been whipped. Stable and pure ... more creamy than sticky.



WAX / EARWAX

Slightly less pure than budder. Consistency of a sticky paste, similar to earwax.



SNAP / SAP

Translucent with a consistency like taffy that "snaps" when you pull off a dab.



GLASS / SHATTER

Translucent, smooth amber-colored solid that "shatters" when you break off a dab.

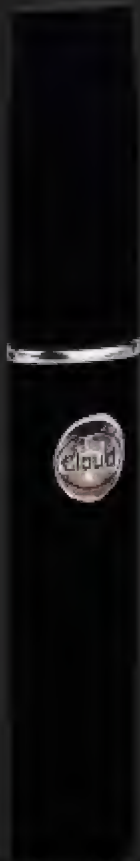


RAW

A puffed, aerated consistency like a cheese doodle. Crumbles into sand when handled.

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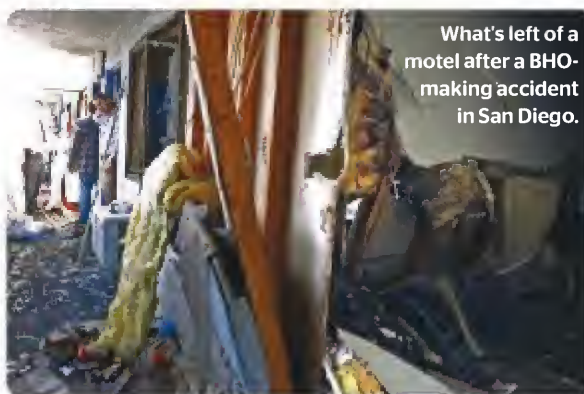


certain extracts out in the air for a while, they begin to goo up—a process known as *auto-buddering*. Basically, by manipulating the extract in different ways (temperature, moisture, pressure, agitation), the extract artist can produce a variety of textures to appeal to all palates and preferences.

As of yet, there's still no solid scientific evidence that BHO itself—if made properly—is dangerous to ingest, even if it does contain trace amounts of residual butane. If made improperly, however—using plants containing pesticides or mold, or with inferior-quality butane—there may be legitimate health concerns. Hopefully, as more cannabis labs begin to test for contaminants and solvents (something that Seattle's Northwest Botanical Analysis, for example, has started doing), these concerns may be addressed by buying from reputable sources.

Other possible health issues that have been raised, such as metal-fume fever (from inhaling trace amounts of metal that may flake off the nail) or cannabinoid hyperemesis (a syndrome characterized by symptoms of nausea, vomiting and abdominal pain), will likely remain unsubstantiated until real clinical studies can be done. In the meantime, to minimize these potential risks, we recommend always seasoning the nail (heating it until glowing red, then cooling it off in water) to burn away any possible impurities before use.

Frankly, the greatest likelihood of injury we've encountered so far seems to be from passing out and falling over after doing a dab. Make no mistake—this stuff is potent, and even seasoned



What's left of a motel after a BHO-making accident in San Diego.

stoners have been known to get a bit dizzy after a decent-sized glob. For this reason, we recommend dabbing in a seated position whenever possible or, if you're in line for a dab at an event, asking the person behind you to be your spotter. You hear that, guys? Be ready to perform a "dab grab" in case the person in front of you faints!

Seriously, though—while the health risks of ingesting BHO may be somewhat exaggerated, the risks involved in making it cannot be overemphasized.

For every master blaster, there are likely dozens of idiots out there who think they can make their own wax with a can of cheap lighter fluid and a piece of PVC pipe, and end up blowing up some hotel room instead—or, worse, their parents' house. We've said it before, and we'll continue to say it: Blasting should *never* be done indoors, and *never* near a flame or any electronic appliance or device that could cause a spark (refrigerators, cell phones, etc.).

Think it won't happen to you? Think again: Last November, a medical marijuana patient in Portland, OR, was severely burned and blew out a wall of his apartment while attempting to make BHO. In January 2013, a young man in a San Diego hotel sustained life-threatening burns after he caused an explosion that was described by other guests as "like an earthquake." Two similar incidents happened in February (in Lakewood, CO, and West Hollywood), and another three in March: in Forest Grove, OR; Petaluma, CA; and Edmund, OK (where, owing to the state's House Bill 1798, which makes it a felony to perform any type of THC extraction and was signed into law in April 2011,



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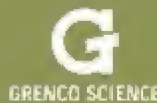


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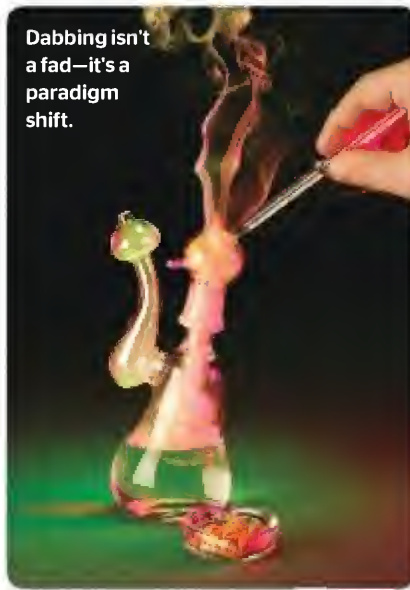


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the poor perpetrator could now face life in prison). Sadly, these instances have become far too frequent—so much so, in fact, that in the February 7 edition of their Infogram newsletter, FEMA included a section entitled “Hash Oil Explosions Increasing Across U.S.” In it, they instruct first responders and law enforcement on what to look for to distinguish BHO blasts from bomb-making or terrorist activity.

Unfortunately, it's stories like these that are introducing BHO to the mainstream media—and as one might expect, the results haven't been good. On March 11, an NBC News affiliate in Grand Junction, CO, ran a feature about the “potent and potentially toxic new form of marijuana” called dabbing. Instead of interviewing experts on the topic—such as one of the many professional extract artists or medical marijuana doctors that have appeared on our dab panels—the producers instead chose to interview a high school girl and the obligatory reformed “pot addict” who claimed that, after smoking marijuana for the first time at age 13, he got “hooked” and proceeded to waste the next 18 years of his life. (You know, unlike everyone else in the world who smokes some weed, gets a snack and then manages to go on with their life.) The report also claimed that dabbing could result in overdoses and increased cases of schizophrenia, which it called a “known potential side effect of marijuana.” Talk about bullshit ... as usual, network news prefers to drum up ratings with half-truths and scare tactics aimed at paranoid parents rather than presenting an objective, scientific examination of the issue.



Dabbing isn't a fad—it's a paradigm shift.

Go behind the scenes at Sarah's dab cover shoot at hightimes.com/dabgirl



Nevertheless, with news coverage like that, it's easy to see why pro-pot activists fear that the dab phenomenon—with its seeming “hard drug” overtones—could throw a roadblock in front of the otherwise overwhelming pro-legalization wave sweeping the nation. And let's face it: The PR problem is bound to get worse before it gets better. But if there's one thing we should've learned from the DARE and “Just Say No” campaigns of the 1980s, it's that scare tactics and misinformation don't help keep kids off drugs—if anything, they end up doing the opposite. Which means the best formula for ensuring the safety of all would-be dabbers is the same as it is for plain old pot: open dialogue, an honest examination of the facts, establishing quality controls on the product and an age limit on its sale—and all of

these aims are better served by legalization and regulation than by prohibition and propaganda.

History teaches us that once a new technology or paradigm arrives, there's no turning back. When rock'n'roll hit the scene, it was condemned as dangerous and corrupting—and today, it's as American as apple pie. Dabbing isn't a fad—it's a paradigm shift, and rejecting it won't make it go away. Attempts to stop a new generation of cannabis enthusiasts from dabbing will ultimately

prove as futile as trying to stop them from tweeting or texting. Ultimately, all we can do is make sure they have access to the most accurate information and the best-quality concentrates at their disposal so that when they're old enough, if they choose to dab, they can do so safely and responsibly. ✨

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Landraces: A (Re)

While many cannabis strains have become diluted due to amateurish breeding practices, some expert breeders are using original marijuana genetics from their source regions to reinvigorate the ganja gene pool for the benefit of medical patients and growers alike.

Story by Anthony Luna. Photos by Lochfoot

Why Landraces?

In response to over-hybridization, artificial genetic modification, loss of genetic diversity and the resulting degradation of important food strains, some seed stewards have launched an aggressive campaign of locating, verifying and saving landrace seeds for a healthy future. Those who depend upon cannabis for their health and well-being face similar issues today. This is a very sensitive time for marijuana breeding practices, as the proliferation of questionable genetics continues to dilute the species. This is of particular importance to medical marijuana patients, whose needs are focused on finding the proper medicine, not the latest hip strain. As a result, the re-emergence of landrace chemotypes is crucial to the evolution of medical cannabis. Fortunately, cannabis seed stewards have been quietly collecting, trading, and sharing rare and unblemished seeds for many generations. And after more than 40 years of growing and saving original landrace cannabis strains, it is time to share these special genetics.

Landrace agriculture allows us to honor our diverse values and come up with creative solutions ... [and] to listen to and co-create with the values of the environment around us.

—Jake Wartell, “Landrace Agriculture as an Expression of Pluralistic Values”

introduction





A garden full of landrace strains basks in the glory of the sun.

What Are Landrace Strains?

Landrace is the term used to describe species of plants (or animals) that have adapted to the environment in which they've existed for many generations, mostly via human-influenced natural processes. Landrace strains have often been grown in isolated areas for hundreds of generations, and therefore remain free from undesirable cross-pollination. Genetically, these seeds are very diverse phenotypes that maintain the key identifiable characteristics necessary for preserving and continuing their genetic makeup. At the same time, landraces are not static strains: They continue to evolve and adapt to changing conditions. This is an important distinction from modern practices, in which breeders seek to achieve absolute consistency by exerting total control over the growing environment—a goal very difficult to achieve outside of the laboratory.

Contrary to popular thinking, a landrace is *not* the same as an heirloom strain. Heirlooms—quite often the descendants of landraces and therefore important in themselves—are domestic varieties selectively bred to retain non-hybridized, pre-agribusiness traits. They

are selected and cultivated to perform best under specific conditions. This less-rigorous breeding process has produced resilient plants capable of withstanding a wide variety of weather, soil and pest conditions experienced throughout the plants' generations.

Conversely, the more localized aspect of landrace strains is their most significant characteristic. Unlike the modern cannabis "name game," in which growers-*cum*-breeders arbitrarily create "new" strains according to the latest trends—think OG Kush dominating in Southern California under names like Justin Bieber, Charlie Sheen or OG 1 Kenobe—landrace populations are named according to their locale. This is crucial for growers interested in working in co-creation with their specific environments, the most crucial attitude when it comes to sustainability. Plants produced through modern breeding practices are not as adaptable to increasingly challenging cultivation conditions as landrace strains are. And we now know that these unhealthy conditions result from the industrial and commercial practices used by growers and breeders focused on high yields (and big bucks), to the detriment of plant quality, stability and vigor.

Landrace Varieties

I'm currently growing out a Mazar-i-Sharif x Uzbekistan, both landrace strains. This cross was worked on by a friend overseas. It has been called "the Beast from the East," as the Uzbeki can get very large. There are two phenos: one with a Christmas-tree shape, the other more of a stretched-out plant with larger internodes and sparser growth. The Christmas-tree pheno smells like Afghani, and the stretched-out pheno smells like lemon. These plants originated in the Balkh Province in the northern part of Afghanistan, which borders on Uzbekistan. Nearly half of this province is mountainous.

The highland Burmese is another landrace strain that I've been working with and refining. Burma lies between the Tropic of Cancer and the equator, and its highlands range from 8,200 feet subtropical to 9,800 feet temperate. The Burmese landrace is a true-breeding 100 percent *sativa* with incredibly sweet and exotic aromas. It is short and branchy and finishes outdoors in mid-October.

The highland Colombian, another landrace strain in my personal seed bank, was originally grown at approximately 12,460 feet. The seeds were selected from the two wettest years on

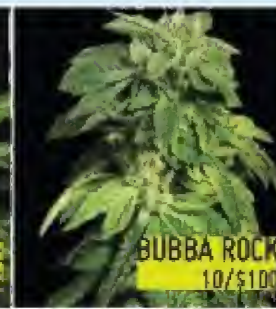
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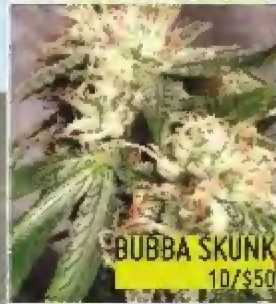
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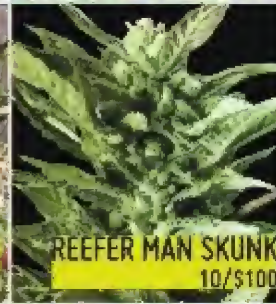
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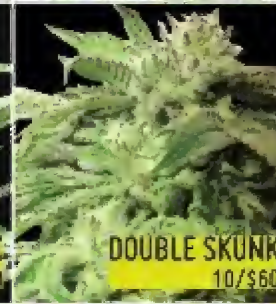
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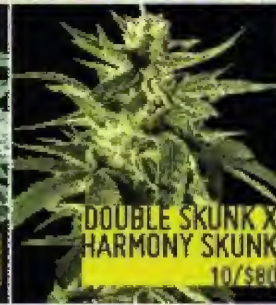
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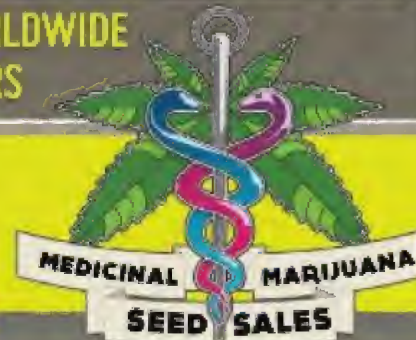
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record; as a result, the strain is very mold-resistant and flowers anywhere from 16 to 24 weeks. These are all equatorial highland *sativas*, spicy and sweet with a pronounced cerebral high.

Last but not least comes the highland Thai, a pure *sativa* landrace grown by a hill tribe in northern Thailand. Despite its name, the strain originated in Tibet and migrated through China and Burma over 300 years ago. This is another pure-breeding strain, grown for over 100 years in this mountain village (elevation: 6,560 feet), with the seeds always collected from the same source. There are two phenotypes: The first is a medium-green *sativa* with narrow, lightly serrated leaves. It can grow to just over 6 feet, takes from 14 to 18 weeks to fully mature, and boasts a sweet, powerful creeper high that is *not* for the occasional toker. The second pheno is darker green and with slightly wider leaves; it grows a bit smaller than the first, flowers slightly sooner, and provides more of a relaxing mind-and-body stone.

New Genes

One of the benefits of working with landrace strains is the increased genetic diversity they promise. There is so much potential that we can unlock with our introduction of landraces to the cannabis gene pool, especially in terms of medical marijuana. Medi-pot patients are more or less pushed toward using one specific type of cannabis with virtually identical ratios of cannabinoids, terpenoids and flavinoids. Data-gathering efforts grounded in science are focusing on the medicinal qualities of the cannabinoids (including CBD, THCV and CBC) as well as the terpenoids (such as limonene, myrcene and beta-caryophellene). The desire for more diverse ratios of cannabinoids and terpenoids is sure to be the result of these efforts. Being able to identify rare landrace genetic traits and consciously breeding back such newly desirable traits and chemotypes will further the ability of patients to finally find the cannabis strain that suits their individual needs.

I've recently begun partnering with our cannabis-testing lab to evaluate landrace constituents. CBD research is especially important here, as CBD (cannabidiol) is a major constituent of marijuana, representing up to 40 percent of its extracts. Medically, it has been shown to relieve convulsion, inflammation, pain, anxiety and nausea. Ongoing research these days focuses on plants with high CBD percentages, which certain landrace strains produce large amounts of.



Finding Landrace Strains

Unfortunately, these days it is getting more and more difficult to obtain pure cannabis genetics. In the 1960s, world travelers interested in growing the plants brought many landrace seeds back to the United States from places like Mexico, Nepal, Afghanistan and many other parts of the world. A few of these people were forward-thinking and began to save this seed stock. I experienced this firsthand: Many imported strains have passed through my area, and I was able to acquire some of the finest. Now it's time to reopen the cannabis gene pool from yesteryear.

I'm very fortunate to have acquired these precious seeds, and I've been working on a number of landrace projects ever since. For those of us living on the West Coast, mold-resistant strains are

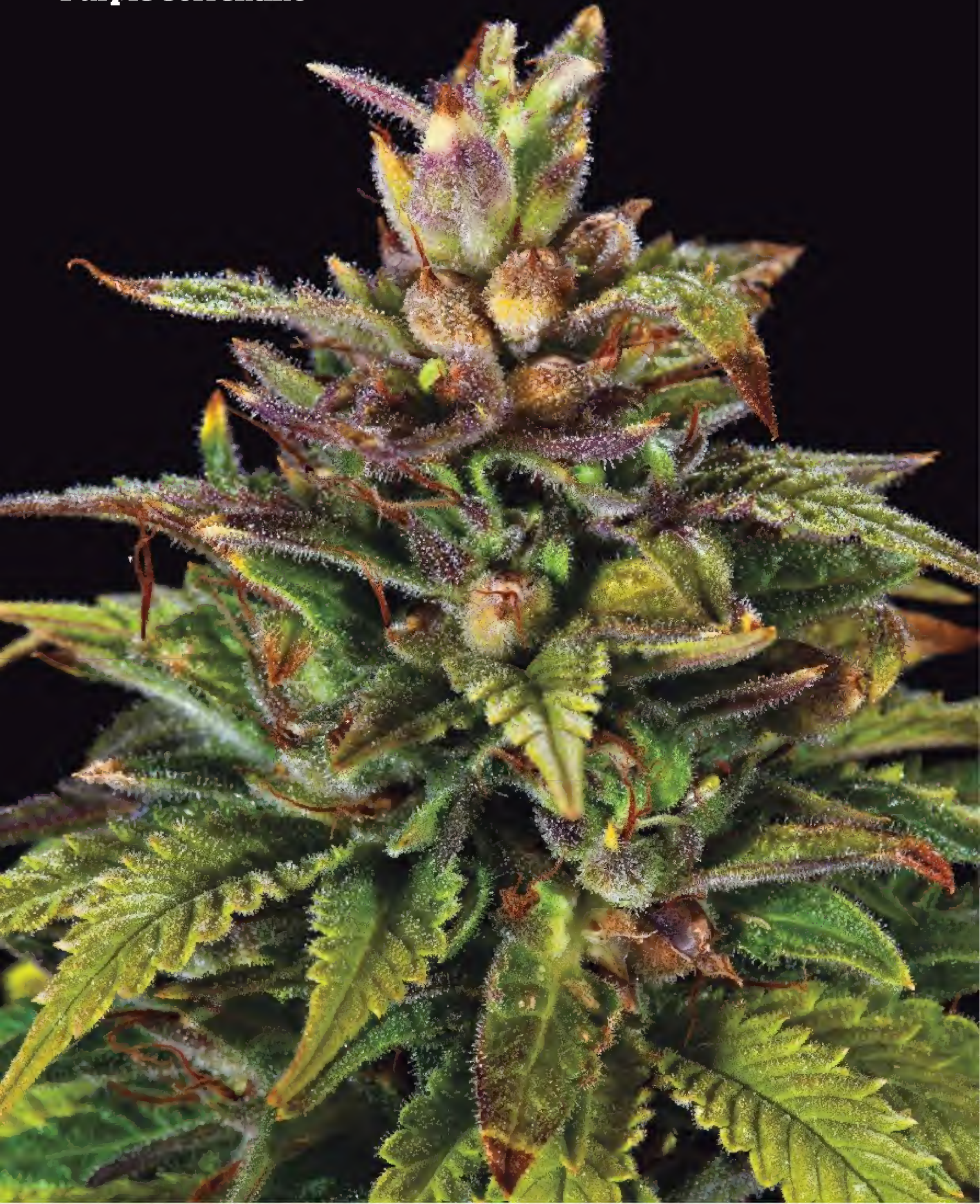
Old-school growers, breeders, and seed stewards are all working on a variety of intertwined projects for one purpose: to improve the marijuana situation for everyone.

very important. As our weather becomes ever more erratic, the challenges posed by mold have proven difficult to overcome. Many cannabis farmers have issues with botrytis (gray mold); indeed, it seems to be a growing problem in many areas of the country. As a result, mold resistance has become one of my main areas of interest, and I expect it will continue to be an important, ongoing focus.

I'm looking forward to this year's projects—my own and those of other seed stewards I've been working with. As the medical cannabis situation continues to evolve legally, more people have expressed an interest in producing and using herb more closely aligned with their needs as patients. Old-school growers, breeders and seed stewards are all working on a variety of intertwined projects for one purpose: to improve the marijuana situation for everyone. We look forward to sharing our experiences with you as we progress toward a sustainable cannabis future. ✨

From top: Mulanji Gold sprouting forth from the soil; Durban Poison reaches for the light; Cape-town F2 building up branches to support big buds.

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The Art & Science of Cleaning Concentrates

Part 1

How to ensure a healthy product after extraction.

By K. of Trichome Technologies and Mel Frank. Photos by Freebie

Before we begin, please note that this article was written for professional concentrate manufacturers with the goal of helping them to create cleaner, healthier products. Some people have foolishly attempted to make concentrates using cans of butane meant for lighter refills and have badly burned or injured themselves in the process, even causing explosions; those who survived have faced prosecution on serious criminal charges. Further, consumers need to be forewarned that ingesting such amateurishly made extracts can have long-term health consequences. Because solvents are highly flammable, potentially explosive and dangerous to work with, we believe extraction should be left to the professionals. Therefore, the initial extraction process will not be described in this article, which focuses on ways to improve the purging and cleaning of extracted cannabis resin.


An Introduction to Concentrates

High Times Cannabis Cups now recognize concentrated forms of extracts as an increasingly important category in their competitions. Popularly known as *dabs* or *dabbing*, these concentrates are a very hot ticket: Vendor booths featuring them draw the most attention at High Times events, and concentrate panels garner some of the biggest crowds at panel discussions. But while concentrates aren't new, the cannabis concentrate industry is—and it's also standing at an important juncture in the changing attitudes toward marijuana in this country. As a result, if this new (and at times naïve) concentrate industry doesn't become better self-regulated, it could well prove a detriment

to the future of cannabis legalization.

First, a few basic points: Dabs are very small amounts of concentrated cannabis resin. The main constituents of this resin are cannabinoids (such as THC and CBD, which are responsible for the plant's euphoric and medicinal properties), as well as the various terpenes and terpenoids (which are responsible for the myriad flavors and aromas we experience in marijuana). Terpenes and terpenoids also contribute, via the so-called "entourage effect," to the perceived differences in psychoactivity of different marijuana strains.

Hashish is the traditional non-solvent concentrate; whether it's hand-rubbed, sieved or water-extracted, hash is basically a collection of resin glands (also



called trichomes) and plant debris. Even the best sieved and water-extracted hash will contain some plant debris, and hand-rubbed hash even more so. But in properly made solvent concentrates, this plant debris (along with the resin-gland heads and stalks) is eliminated. Well-made concentrates consist only of the resin from the trichomes, which is made up of cannabinoids and essential oils. Concentrates are attractive for important health reasons: For medicinal use, they can provide measured quantities in products with known cannabinoid levels, while for recreational users, they allow ingestion with a minimum of smoke and fewer inhalations.

Manufacturers of concentrates apply various names to their wares, but these actually comprise only three concentrate forms: *shatter* (or *glass*), *budder* (or *whip*), and *honey oil* (or *BHO*, a.k.a. *butane hash oil*). Products such as edibles and balms made with concentrates are generally referred to as *infusions*. But highly varied labels are given to concentrates as people rename and repurpose these three basic forms. For example, a seller might hammer a shatter (or glass) into a fine powder, then package and label it as “moon dust,” “caviar” or some other novel name. It’s not a new substance—it’s still made from the same original material—but it has been turned into a powder and renamed for marketing purposes.

In the pharmaceutical and chemical industries, a plant-derived concentrate is classified as a Botanical Drug Substance (BDS); the professional term *absolute* is “glass” or “shatter” in our market, and a *concrete* is what is commonly referred to as “budder” or “whipped BHO.”

Another Note of Caution

For both manufacturers and consumers, it's extremely important to realize that a concentrated extract contains *everything* that was soluble in the material used. This can include pesticides or fertilizers sprayed on the plant, resulting in users or patients ingesting massive doses of potentially harmful contaminants. Given this fact, the consumer should always take care to determine that the starting material was grown free of pesticides and foliar sprays.

Our goal is to educate both manufacturers and consumers by explaining the processes that produce the purest, healthiest concentrates possible. A search through existing cannabis-extraction patents will yield much useful information for manufacturers. Most, if not all, of today's marijuana-extraction methods were discovered years ago. There is no secret or proprietary method involved here, and no current concentrate maker has "invented" anything; it's all just the same chemical processes discovered long ago. None of the methods described here are new (see plantlipids.com). A highly recommended instructional DVD to start with is available for purchase from medicinalalchemy.com. This article brings together information from a number of these sources.

Cleansing Your Concentrate Extraction

Two methods of cleaning or "purging" concentrates *after* the initial extraction are discussed here. However, we caution people to use only top-quality buds (either fresh or dried) in the initial extraction in order to ensure the healthiest, most potent finished product. Remember, never use buds from plants that were sprayed with neem oil, pesticides or fungicides, or that were kept near a sulfur burner—and you should especially be sure that your buds are free of pests, mold or mildew. Good, clean buds make good, clean product, so know your source!

The following sections outline methods by which extract artists can clean or purge their product of unwanted and unhealthy byproducts left over from the initial extraction. These byproducts may include (but are not limited to) residual solvents from the extraction that get trapped in the cannabis resin, as well as undesirable plant material such as chlorophyll, fats and lipids. Not only are these very unhealthy, but they also make for a harsh and unpleasant smoke. While many amateur concentrate makers believe their job is done after the initial extraction, true extract artists should understand the science behind the following processes and know that these methods are just as important—if not more so—than the initial extraction.



Method I: Winterization

Winterization treats concentrated resin that was extracted using butane, nitrogen or CO₂ as the primary initial solvent. It doesn't matter which fluid is used, as all three generally yield good quality and considerable quantities of cannabinoids, terpenes and terpenoids. Also, all three at least minimally strip unwanted substances, such as chlorophyll, lipids, fats and plant waxes, from the cuticles (the shiny coating on leaf surfaces).

If CO₂ or nitrogen was used in the extraction, the raw extract should be placed in ethanol alcohol (for example, the grape-spirit ethanol available from organicalcohol.com) and then warmed slightly to approximately 120°F, until you see the extract dissolve into the grape spirits.

When using butane, mix one part grape spirits with two parts butane, and the cannabinoids will migrate to the alcohol while the butane is evaporating. For this procedure, start with instrument-grade N-butane as the primary extraction fluid, and then introduce the alcohol.

As seen in the first photograph, we start with multiple containers full of one part alcohol to two parts cannabinoid-infused butane. If you don't understand how we got to this point, then this process is *not* for you. A lack of knowledge and understanding can have catastrophic consequences, such as explosions and fires. However, if you're a manufacturer who already understands how we got to the full containers, this is what comes next:

After you've infused the cannabinoids into the organic alcohol, pour the solution into sealable containers. **WARNING:** At this point, *all* of the butane, nitrogen or CO₂ must be *completely evaporated*. To repeat: Do *not* put anything into the containers until all of the butane, nitrogen or CO₂ has completely evaporated; once it has, the fluid *will no longer bubble when stirred*. Essentially, the fluid is now a very strong tincture.

1. Extracted cannabinoids and terpenes suspended in a combination of alcohol and butane, extracted under legal laboratory conditions in food-grade containers.

2. After winterization: you can clearly see the precipitated contaminate on the bottom of the containers; most of it is waste product and not consumable.

3. Filter the alcohol straight from the freezer; this allows you to capture anything that may be suspended in the fluid such as undesirable waxes and fats.

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You can find more information at

http://www.AcrossInternational.com/Drying-Ovens_c15.htm



Next, seal the containers of alcohol solution and place them into a freezer (this step is called *winterizing*) for at least 24 hours at a minimum temperature of 32°F. But for a complete winterization, the solution should be frozen at -15°C to -25°C (13°F to 5°F) for 48 to 54 hours.

After winterization, pour the alcohol solution through unbleached organic coffee filters (or 20-micron filters) to remove the waxes and other undesirable elements that remain in it. This sediment will col-



lect at the bottom of the solvent container, so carefully decant only the fluid into the filter, since you don't want to pour out the sediment as well. Also, never exceed the half-full line in the filter, as increased pressure from the fluid weight in a filled filter forces unwanted material through. So, to repeat: The procedure is to half-fill the filter, then drain it, discard the filter and replace it with a new one.

After proper filtration, what's left is a pure alcohol-infused extract. To simplify the drying and collecting, filter the extract directly into a pan or container lined with unbleached parchment paper. To recover the cannabinoids trapped in the sediment in the solvent container, refill it with alcohol and heat to 100°F before refreezing and then repeating the filtration process.

Next, the filtered solution must be dried. Place the pans in front of fans in a clean, dust-free environment with no light (even subdued light) and very good ventilation. Most importantly, be sure that there is *absolutely no source of ignition*, such as flames or sparks of any sort, including water heaters, dryers, refrigerators, electric tools, etc. And *never* flip on a light or any other kind of electrical switch. Be smart: There is no room

for errors or carelessness in this line of work. Also remember that breathing alcohol vapor is unhealthy, so performing this part of the operation outdoors will greatly reduce your risk.

Drying, Vacuums & Temperature

The concentrate generally takes 24 to 48 hours to dry, depending on air movement, temperature and humidity. Do not apply heat, as it will slightly diminish the flavor by evaporating some of the lighter essential oils. When evaporating the alcohol, any remaining water should be evaporated as well; if this is not the case, let the concentrate stand until both are gone. This process is commonly referred to as *thin-layer evaporation*. The resulting product is sticky and runny but not yet fully dried, as it still has minute amounts of alcohol and water trapped inside. If this is slightly heated and vigorously stirred to release the alcohol and water, you will have an *oleoresin*, a mixture of oil and resin. This oleoresin still needs further drying.

Completely drying the oleoresin is a fairly straightforward process. The name commonly used for this procedure is "purging," but the scientific term is *degassing*. The proper method of

degassing utilizes a vacuum drying oven, which allows for a very controlled application of heat under extreme vacuum. One excellent tool for this is the Model V from Across International (acrossinternational.com), which allows for the extreme vacuum levels needed to ensure a completely solvent-free Botanical Drug Substance. Also if desired, the vacuum drying oven can decarboxylate the BDS so that it can be used in edibles. The BDS will have only a minimal loss of terpenes and terpenoids, since when the heat is applied under vacuum, oxidation and degradation are reduced. You cannot achieve this type of vacuum in a jar.

The vacuum pump, plumbing and cold trap recommended here come in the "K" package available at vacuumpumpsupply.com. This pump also creates a high vacuum. The plumbing consists of metal clamps, screened centering rings, bellows (connector tubes), a filter and a cold trap. The cold trap is used to capture any alcohol or water before it contaminates the vacuum pump's oil, which could damage the pump or decrease its efficiency. The bottom chamber of the cold trap is filled with dry ice, and the top chamber can be filled with liquid nitrogen and then emptied out every three to four vacuum cycles to eliminate collected moisture. The cold trap is then refilled and the process repeated.

As always, read the instructions and understand the equipment. Place the undried BDS on the shelf of the vacuum drying oven and set the temperature on the oven to 60°C. A vacuum level of 8.0 millitorr is desirable, which develops fairly quickly. When the 8.0 millitorr is achieved, close the vacuum valve, turn off the pump and open the chamber door. Never exceed a temperature of 60°C or the product's color will darken and desirable extracts will be lost through overheating. So bring up the heat slowly to 60°C, while the pump brings the vacuum to the desired level. Close the vacuum valve when the temperature reaches the proper degree. The vacuum is released, and then the warm, wet BDS is taken out to cool in a dark, dust-free environment for approximately one hour.

4. Winterization is a form of super refinement, as opposed to un-winterized concentrates that still contain all unhealthy compounds such as fats and waxes.

5. Three gallons of 190 proof organic neutral grape spirits. It is wonderful material, used to make expensive perfumes, and has minimal odor.



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After an hour, the BDS should be very hard and easy to flake off the parchment paper; if not—if it's still soft and sticky—then reheat, vacuum and cool until it is completely hard. Finally, fold the paper so that the BDS is bent upon itself until you've collected every single bit into one chunk. Mold this chunk into any convenient shape or form you want. I place the BDS into airtight, nitrogen-filled con-



tainers and freeze it for long-term storage. For short-term storage, I place it into an airtight/lightproof glass container and refrigerate.

This absolute/glass concentrate can be further processed into a concrete/budder one by placing it into a glass dish and warming to 120°F so that it begins to melt. At this point, it must be vigorously stirred or whipped until it reaches a light color and is non-sticky

and putty-like in consistency. For stirring larger quantities, use a drill wrapped in a dust-free towel (so that no brush dust from the drill falls into the concentrate). It's recommended to use a hot plate for heating and reheating while stirring, which can take 10 to 15 minutes. This procedure is how a medicinally pure, winterized BDS can be produced on a large scale as either an absolute or a concrete.

Additional Techniques for Winterization

Here are some other techniques that can help improve production and lead to an even purer, healthier product:

- Cool or freeze your primary solvents (the ones that come in large tanks) in garbage cans filled with ice. Spread some rock salt atop the ice, which makes it colder. For smaller cans, place them directly into a freezer.
- Explore using saltwater brine washes to remove any water-soluble contaminants.
- Add dry, gaseous nitrogen to the vacuum drying oven prior to degassing to displace moisture and oxygen in order to reach a higher vacuum and a drier environment in the oven.
- From GW Pharmaceuticals' US Patent #7344736: "Comparison of the levels of degradation reached after 12 months at -40°C for the standard BDS and the corresponding charcoal purified BDS indicate that for both the THC and the CBD extracts the charcoal purification increases the resistance to thermal degradation by over 50%."

That 50% is a staggering result, since it shows that by charcoal-filtering the ethanol after winterization, you can decrease degradation by half (assuming you store your BDS in a freezer at -40°C). The second you extract the volatile oils from the resin glands, they are exposed to oxygen and begin degradation. This is why I prefer my BDS in the form of an absolute/glass, so that only a minimal cannabinoid surface area is exposed to the air. When a concentrate is whipped, air gets trapped inside, and that air will cause oxidation. Both concretes and absolutes should always be stored in a freezer to best maintain their potency and flavors.

Also, all of the materials used in processing must be *food-grade*. After all, concentrates are consumables!

6. Thin layer evaporation: Evaporating alcohol in front of fans. Always evaporate in a dust-free environment and cover pans/dishes with dust-preventing filters.

7. After evaporation of alcohol, the concentrate on the parchment paper will look like this and is now ready to be dried in the vacuum drying oven.

8. Vacuum pump, cold trap and vacuum drying oven. Achieves both desired vacuum levels and temperatures. Can be used for degassing and/or decarboxylation.

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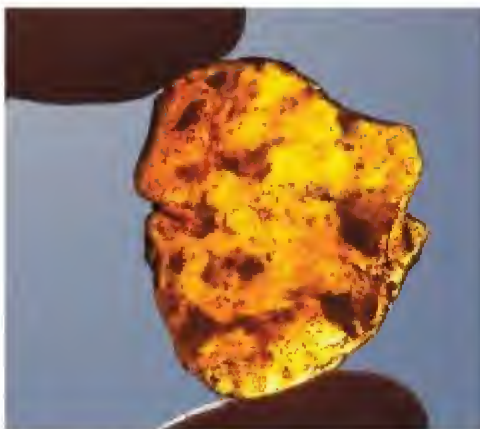
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Notes on Manufacturing Concentrates

Buds should be stored frozen and preferably never exposed to strong light after harvest, since exposure to light degrades some cannabinoids (particularly CBD), while exposure to air oxidizes THC to CBN, resulting in a lower-potency and darker-colored product. Many people believe that the darker the color, the poorer the BDS's ultimate quality, but this is simply not true. However, it *is* true that a lighter color indicates that the starting material was harvested, handled and stored properly. Even so, a darker color doesn't necessarily mean that the concentrate is bad or not very potent. A dark color only indicates that the starting material was harvested late or improperly stored and will be slightly less potent than it could have been. For example, one dark-red (almost black) BDS was amazing in both potency and flavor—but it might have been even better if the starting product had been handled properly.

Also, the extract solution should never be exposed to light, especially direct sunlight, for any appreciable time. Sunlight, with its ultraviolet rays, will rapidly degrade the contents, resulting in a darker color, ranging from a cherry red to a dark



A close-up reveals a translucent absolute, technically considered a "winterized absolute," the purest form of concentrate.

purple that, in bulk, appears to be black. (And by "in bulk," we're talking about quarter-pound chunks and bigger, not paper-thin smears on parchment paper, which would be red, gold or a darker amber.) So high-quality buds that were stored in darkness—and preferably frozen—are the necessary foundation for making top-quality cannabinoid concentrates.

The Nuts & Nails of Safe Dabbing

The concentrate industry requires testing labs to produce reliable data on cannabinoid levels, but it also sorely needs labs to give cautions and recommendations on health

issues. Questions concerning the means of ingestion are, as yet, unanswered. Is titanium a safe material to use? Are users inhaling flakes, gasses or compounds off heated nails and skillets? Titanium begins to become reactive at relatively low temperatures (400°F), and common dabbing practice involves heating these skillets and nails to a cherry-red color, which happens at a much, much higher temperature.

Concentrates need to be tested for residual solvents and then safe levels established for these as well. Most labs simply do broad-spectrum pesticide/fungicide tests, but better tests are necessary for commonly used insecticides and fungicides such as neem oil, sulfur, and the organic substances commonly used in various insecticides and repellants. Just because a substance is labeled organic doesn't mean it's safe at concentrated levels. For consumers, the safest concentrates are produced by vertically integrated manufacturers—those that grow their own marijuana and can reliably state that no pesticides or foliar sprays were used. ✨

Editor's Note: Stay tuned for the second part of High Times' mini-series on creating safe and healthy concentrates. Part II, appearing in the August 2013 issue, will focus on another method for removing contaminants, developed by a longtime concentrate expert (and friend of the authors), Budderking.

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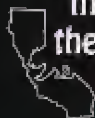
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Dispatches From the Poppy Trail

Tracking the heroin produced in Afghanistan's remote mountains through to the streets of Europe and beyond, photographers Antoinette de Jong and Robert Knoth, the authors of *Poppy: Trails of Afghan Heroin*, have documented how drugs, armed conflict, transnational crime and corruption feed off each other. Their mosaic of photos and personal reports (as told here by Antoinette) span an arc of almost two decades in 14 different countries.

In 1979, the year of the Soviet invasion, Afghanistan had no significant production of opium. But that was soon to change: The *mujahedeen* rebels who opposed the Red Army used opium and heroin as a source of income and expanded cultivation rapidly. Western governments considered this damage as collateral: Their main objective was to get the Soviets out of Afghanistan, and with a bit of luck the Soviet empire would suffer a bloody nose as well—payback for the humiliation of America's debacle in Vietnam.

Today, Afghanistan produces 90 percent of the world's opium. The global trade amounts to an estimated \$65 billion annually. Most of the profits are pocketed by international crime cartels in Russia and Western Europe. In Afghanistan itself, the main beneficiaries are government officials, powerful warlords (many of them Western allies), the Taliban and—last and very much least—ordinary farmers with few alternatives.

Even as international forces start to pull out from the current conflict, most Afghan citizens still lack basic security, and the risks of civil war and further fragmentation of the country loom large. There is no doubt that Afghan opium will continue to fuel war, corruption and organized crime for many years to come.

Moreover, the impact of the opium trade is clearly not limited to Afghanistan itself: It reaches much further, deep into Europe and beyond. The old Silk Road, which once brought pearls and porcelain to the West, now brings addiction and death.



A poppy field in Balkh Province (Afghanistan, 2003).

The Mujahedeen Wars, April 1993

It's my first trip into Afghanistan, traveling by public bus together with John Jennings, the Associated Press correspondent in Kabul. Across the Khyber Pass, we find ourselves travelling through a medieval landscape: villages of mud huts, interspersed with olive groves and blossoming orange orchards. Boys with red cheeks and embroidered caps run after their goats, shooing them off the road. On the hot plains closer to Jalalabad, we see patches of land with opium poppies. The pink petals have fallen off, and the bulbs—bursting with opium sap—are ready for harvest. John tells me

about a program sponsored by the US Agency for International Development, which offered financial incentives to farmers who stopped growing poppies.

"The plan backfired," John says sardonically. "Clever farmers who had never grown opium before started growing poppy to qualify for the cash hand-out." The opium trade has also become an important source of income for many *mujahedeen* commanders, whose CIA funding dried up after the Soviet withdrawal. Control of the rich poppy fields and the most lucrative trafficking routes has triggered fierce battles between *mujahedeen* factions.



In March 1995, government forces attack the opposition Hezb-e-Wahadat faction, whose members are largely drawn from Afghanistan's Hazara ethnic minority, in southwest Kabul (Afghanistan, 1995).

Kabul, June 1993

After work, we climb a ladder to the roof and wait for dusk. Tracer bullets shoot through the violet skies like fireworks. Every now and then, there's a heavy blast from the hill behind us: outgoing rockets. The sound of incoming is different; first there's a whizzing, then a sharp metallic crash. Most days, there are just two or three, but occasionally there are dozens of incoming rockets in our part of town. (In fact, between April 1992, when the *mujahdeen* took control of Kabul, and September 1996, when the Taliban came to power, 60,000 Kabulis were killed by rockets and other war-related violence, according to the Red Cross.)

When we're introduced, Rashid at first keeps fiddling with his crocheted cap, eyes cast down, not used to looking an "unrelated" woman in the eye. He will guide me around the poppy-farming communities of Nangarhar. "Where I live," he says, "everybody grows opium." We leave the main road and continue along a dirt track. Behind olive groves, a vast patchwork blanket of white, pink and purple unfolds. As far as the eye can see, there are hectares of blossoming poppies and fields with young seedlings where men, women and children are busy. In the cities, women aren't allowed to work, and they have to cover up in all-encompassing burqas to hide them from

maternal aunt. With her husband and children, she is thinning out the densely packed young poppy seedlings. As she continues to take out handfuls of young shoots, Aunt Gul can't stop throwing her head back and cackling: It's clearly hilarious to have a visitor from abroad in her field. She offers me the bowl full of freshly picked poppy shoots. "Here, have some! It is good for you," she says. Then she shares a recipe with me: "Just wash the greens and eat it as a salad, or use it like spinach with a bit of oil and garlic." Rashid reassures me: "Don't worry," he says, "these young plants don't contain toxins."

The rest of the family stoically continues their work on the little plot of land. There is no time to waste. Most small farmers are heavily in debt: They borrow money from middlemen whom they pay off with the harvest. Many farmers get trapped in a cycle of debt and can find themselves forced to increase cultivation even further, creating a vicious circle. "We don't get rich," says Amir, Gul's eldest son, "but it still pays more than other crops." He is not bothered by criticism that his harvest eventually be turned into heroin that will cause harm to others. "We were given war by the Americans," Amir says, "and this is our gift in return."

"We were given war by the Americans," Amir says, "and this is our gift in return."

New York, 2000

About nine months before 9/11, the United Nations Security Council issues a resolution decreeing that all states shall take the following measures:

... To close immediately all offices of Ariana Afghan Airlines in their territories;

... To freeze without delay funds and other financial assets of Osama bin Laden and individuals and entities associated with him;

... [To demand] that the Taleban, as well as others, halt all illegal drugs activities and work to virtually eliminate the illicit cultivation of opium poppy, the proceeds of which finance Taleban terrorist activities.

(Security Council Resolution 1333, December 19, 2000)



Nazir Mohammed (second from right) and his grandson, 12-year-old Qadratullah, are harvesting opium in a field they share with two other families in the northern province of Badakhshan. (Afghanistan, 2004)

Afghanistan, 1999-2000

The Taliban movement now controls almost the whole of Afghanistan. It wants international recognition, and to that end, it has announced that it will ban opium cultivation. Will this year really see the final harvest?

I'm in Nangarhar Province. Rashid is a friend of a friend of a friend. (I can't mention his name; he'll be in trouble.)

"unrelated" men. But in the countryside, ironically, where the power base of the Taliban lies, they are far less strict. It is impossible to work in the fields wearing a burqa—and besides, in the village, everybody knows and is related to everybody else. Even in Talib logic, women don't have to cover up for family.

Rashid takes me to a woman he calls Khala (aunt) Gul. She is Rashid's



Tajik security forces killed Aloviddin Davlatov (a.k.a. Ali Bedaki), an “Al Qaeda member,” during a raid in the Rasht Valley.



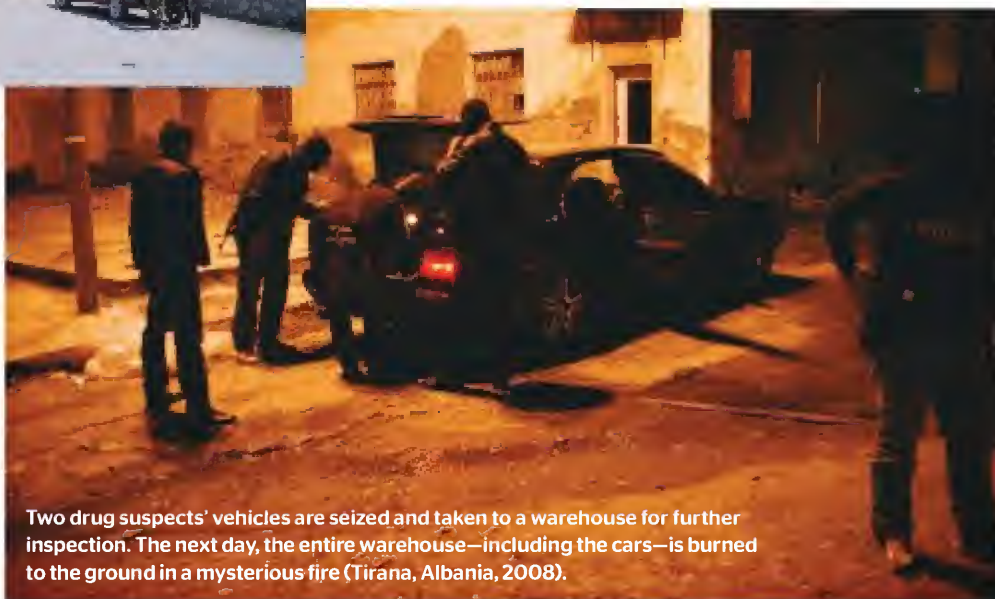
Davlatov and Abdullo, another commander, are said to have led the group that carried out an ambush in which 25 Tajik troops were killed.

2004, Tajikistan

Smuggling routes from Afghanistan lead via Pakistan and Iran into Turkey and the Balkans, or through the northern route via Central Asia and the Caucasus to Russia and the West. Afghanistan’s neighbors are trying to stem the increasing flow, but opium and heroin are being smuggled in every conceivable way: Drugs have been found in fuel trucks, coffee packaging, cat-food wrappers and baby diapers. Or the trafficker might opt for the low-tech solution, floating across the Amu Darya river on inflated animal skins.

The Russians, who guarded the border for more than a century, have acceded to Tajikistan’s request to hand over border control. Few think the Tajik forces are ready for the job, as they lack everything—equipment, weapons, fuel, even food. We drive southeast from Dushanbe for a full day until we reach Kalaikhum. Across the water is Afghanistan, a gap of 200 meters and what seems like 500 years: We can see veiled women carrying water on their heads, walking along a dirt track from spring to village. Tajikistan at least has the Soviet legacy of electricity, tarmac and running water, but somehow, on this side of the border, the task of the frontier forces seems even more daunting.

Further west, we meet a Tajik Army unit at Border Post No. 7. They earn the equivalent of \$20 a month—a fifth of their Russian colleagues. The Tajik commander, Captain Dorojev, doesn’t want to talk about his exact salary, merely commenting that it is “enough to live on. We guard the border out of patriotism,” he adds. Major Shapirov, one border post further on, doesn’t want to lose face either: “I’d rather you didn’t take pictures during lunch. We don’t have meat today.”



Two drug suspects’ vehicles are seized and taken to a warehouse for further inspection. The next day, the entire warehouse—including the cars—is burned to the ground in a mysterious fire (Tirana, Albania, 2008).

Afghanistan, 2004

Local poppy farmer Juma Khan proudly is showing me his new motorbike. “It cost \$2,400. You want a ride?” he asks. He drives around the field and soon gets stuck in an irrigation ditch. When he returns, Juma explains how the free market arrived in Balkh: “First we had the Taliban. They were really tough. And then we had [local ethnic] Uzbek and Tajik looters who robbed everything we had. But now we have democracy, so we grow poppy.” During the harvest, the field workers lick their opium-covered fingers. In essence, everybody harvesting is addicted. “But it’s all right,” says another worker by the name of Charis. “If you drink butter-milk with herbs, you stay healthy.”

Albania/Kosovo, 2008

Every year, 100,000 kilos of heroin transit the Balkan route. Despite claims in Albania and Kosovo that they are losing importance as a smuggling route, Interpol, the FBI and the UN Office on Drugs and Crime (UNODC) still consider organized crime in this region a growing threat.

In Albania’s capital, Tirana, we interview a Western analyst of the Albanian and Kosovar security services. He’s very

pessimistic.

“Ever since Watergate,” I ask, “the classic question has been, ‘Where is the money?’”

“Well, if you have a look out my window,” the analyst answers, “you will see all those luxury cars and construction sites. That should give you a fair idea. This is a money launderers’ paradise.”

“It’s as simple as that? All those glass towers, the new offices, the shopping malls and all those colorful apartment blocks on the Dürres coast are built with laundered money?”

“The entire Dürres coast was built with laundered money,” he replies. “All the apartment blocks. Totally. Completely.”

“Is it even possible to stay away from crime when you’re in Albanian politics?”

“Not at this stage, no. Of course, a small dealer who gets caught will not have connections with politics—but at a higher level, everyone is connected. To get power and to stay in power, especially in a poor country, you need money,” he adds. “I remember the election campaign for the mayor of Tirana. I could follow this from my window: big lights, billboards, advertising. The estimates were that the campaign cost at least €10 million. Where is that money coming from?”

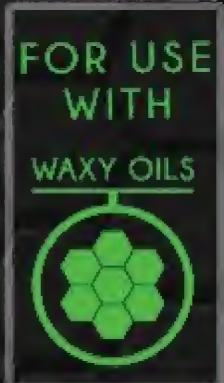
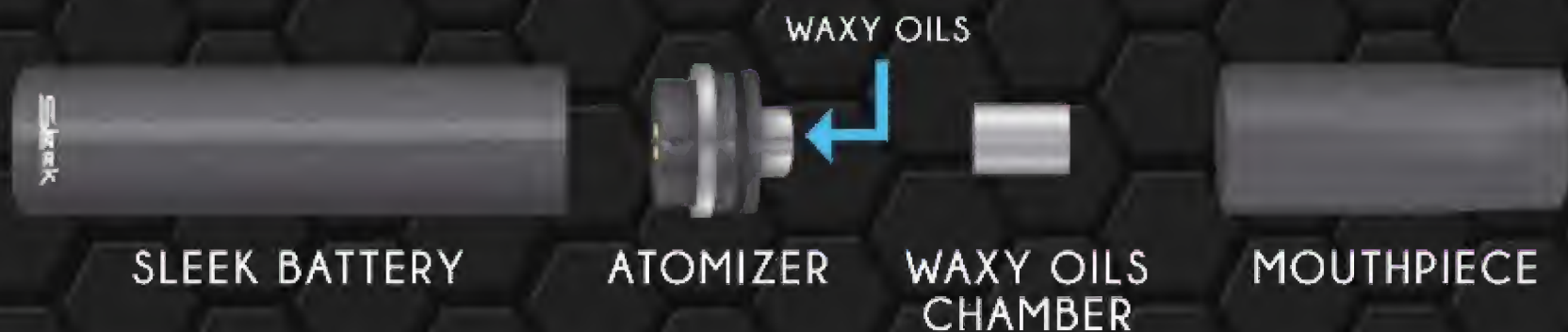


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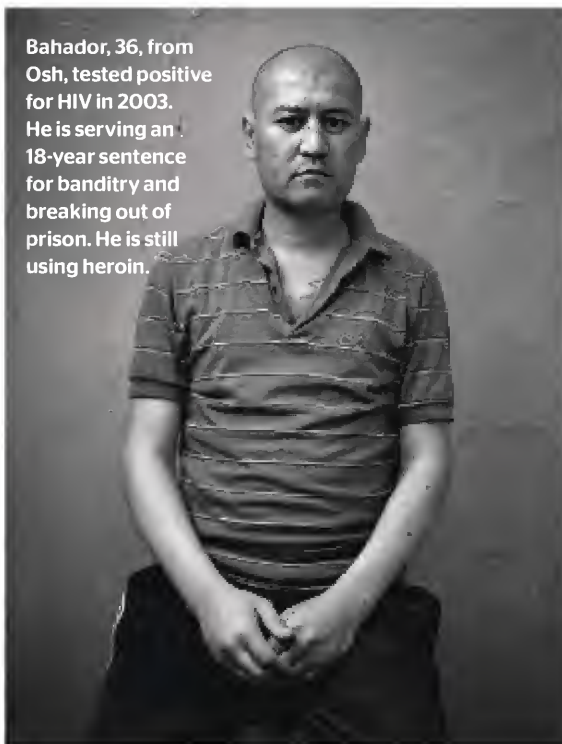
Vienna, 2009

In its official report *Addiction, Crime and Insurgency: The Transnational Threat of Afghan Opium* (2009), the UNODC states that more Russians die from drugs every year (at present, 30,000 to 40,000 annually, according to government estimates) than the total number of Red Army soldiers killed during the Soviet invasion of Afghanistan and the ensuing seven-year occupation.

Kyrgyzstan, June 2009

The amount of heroin entering Kyrgyzstan has tripled in just one year, while the moribund economy has forced thousands of young Kyrgyz women into the sex industry. These two facts are actually related: The growing drug trade brings with it a rise in organized crime of all sorts, including the trafficking of women from Central Asia to Europe and the Middle East. Increasing numbers of girls are being infected with HIV/AIDS. Robert and I decide to travel to Osh, the second-largest city in Kyrgyzstan and one of the main transit points for Afghan heroin.

Ninety percent of the saunas in Osh are used for prostitution. We're sitting in a sparsely furnished room in the Jetigen Sauna downtown: a table, some chairs



Bahador, 36, from Osh, tested positive for HIV in 2003. He is serving an 18-year sentence for banditry and breaking out of prison. He is still using heroin.

and an old sofa, and in a corner a mirror lit with a bare light bulb. This is where the girls wait for customers. Many are from Uzbekistan. They say they can go back there anytime they want to start a new life. Ferangiz wants to have her own cake shop, and Negora wants to open a hair salon ... when they return.

Eventually. Talking to them, it is as if we are all playing parts in a play.

The girls spin out their dreams, and I say, "That's wonderful," because I don't want to tell them that I can't believe in their plans. They are from around Andijan, the biggest city in the poverty-stricken Ferghana Valley. It was here in 2005 that state forces controlled by the iron-fisted Kyrgyz President Islam Karimov massacred hundreds (if not thousands) of anti-government demonstrators. What could these girls possibly go back to?

We have been there less than an hour, but the door keeps opening and a man keeps sticking his head in: *Are we not done yet? Will we be long?* When, after numerous disruptions, Robert and I decide to leave, we have to jostle our way past a row of men pressing against the

door. The queue leads all the way down the passage to the street in front of the sauna. I realize these men are all customers waiting their turn. They will all have to be serviced by the two girls we have just spoken to.

The man who kept interrupting us was not the girls' manager, as I thought—just the first customer in line.



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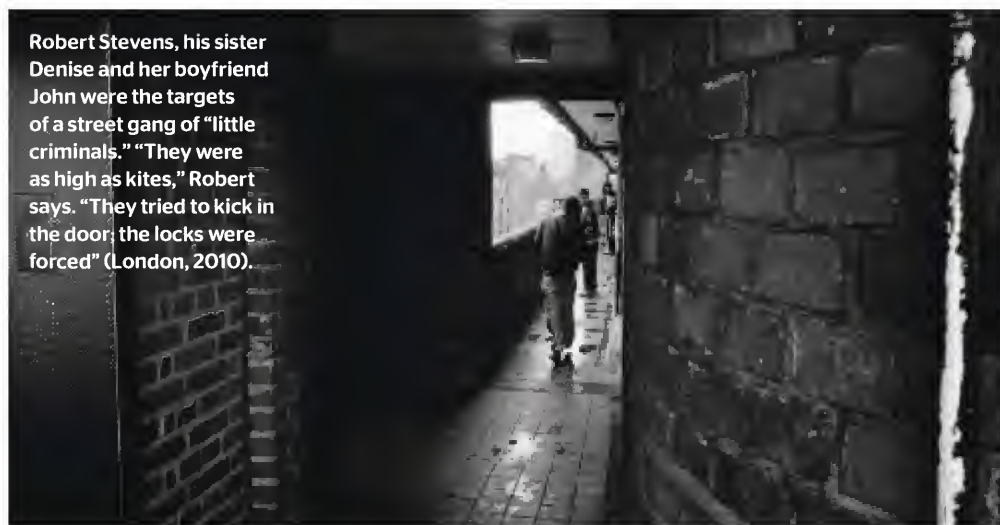
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Robert Stevens, his sister Denise and her boyfriend John were the targets of a street gang of “little criminals.” “They were as high as kites,” Robert says. “They tried to kick in the door, the locks were forced” (London, 2010).

London, 2010

Back in the mid-1990s, when opium production in post-communist Afghanistan first boomed, East London became flooded with cheap heroin. The price of a fix fell by a third, and dealers expanded their customer base by handing out free samples near schools.

A former British policeman considers the fight against drugs as lost. “It’s too late now,” he says. “It’s spiralled way out of control, because it takes people out of poverty. You could earn lots and lots of money compared to somebody

who has a nine-to-five job and works his butt off and gets nothing for it at the end of the day. The others are making thousands of pounds in a week and are very content. Buying themselves all the luxury cars and homes—they’re on the property ladder now. Some of them have got legitimate businesses, but built on illegal money. And when you ask, ‘Where did you get your money from?’, he’s never going to tell. But we know where the money came from and what he built his fortune on.”

At the same time, he adds, “a dealer

can be known as a reputable person. He does everything he is expected to: He is a family man. He is a dad. He takes his children to school. So he does everything he should, but he deals on the side. He makes a bit of money. He doesn’t cause any problems to anybody. He just gets on with his life, and the community are turning a blind eye to it as long as the dealers are not giving them problems.”

Vienna, 2012

The UNODC has published its latest opium surveys. In recent years, Afghan poppy production has declined from a peak of 8,200 tons in 2007 to 3,600 tons in 2010, mainly because of plant diseases. However, the basic rules of supply and demand still apply, so the scarcity of opium after the blight triggered a spectacular price rise. In 2011, farmers could earn 11 times more from cultivating opium than wheat, resulting in a 61 percent increase, to 5,800 tons. Last year, the harvest dropped sharply once more, to 3,700 tons, again because of plant diseases. There’s no reason for optimism, though: In 2012, poppy cultivation covered 154,000 hectares—18 percent higher than the 131,000 hectares recorded the previous year.

No doubt this story will continue.... ✨

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by DAN SKYE

ROSEANNE BARR

THE HIGH TIMES INTERVIEW

A SMALL, INSTANTLY RECOGNIZABLE WOMAN SITS DOWN ACROSS THE TABLE FROM ME. SHE BUMPS FISTS, LEERY OF THE GERMS THAT TOURISTS FROM AROUND THE WORLD BRING WITH THEM TO LAS VEGAS. ROSEANNE, ONE OF FEW STARS IDENTIFIABLE BY FIRST NAME ONLY, IS IN THE MIDDLE OF A SIX-NIGHT-PER-WEEK STANDUP GIG AT THE TROPICANA'S LAUGH FACTORY. SHE ADMITS TO BEING A LITTLE TIRED, BUT NOTHING SLOWS THIS WOMAN DOWN.

ROSEANNE IS A STEAMROLLER WHO'S MADE A CAREER OF BREAKING DOWN WALLS. SHE CALLS COMEDIANS "PSYCHIC BOIL-LANCERS," AND SHE EMBODIES THAT CONCEPT TO A TEE. NAMED BY COMEDY CENTRAL AS THE NINTH-GREATEST STANDUP OF ALL TIME—THE ONLY WOMAN LISTED IN THE TOP 30—ROSEANNE RULED THE AIRWAVES FOR A DECADE IN HER EPHONYMOUS HIT TV SERIES, EVEN AS SHE FOUGHT HOLLYWOOD'S POWER STRUCTURE EVERY STEP OF THE WAY.

BACKING DOWN IS NOT IN HER BIOLOGICAL MAKEUP. SHE'S FORTHRIGHT IN HER OPINIONS AND UNAFRAID TO ATTACK HYPOCRISY AND INJUSTICE WHEREVER SHE SEES THEM, WHETHER IT'S ON WOMENS' ISSUES OR THE WAR ON DRUGS. HER ACTIVISM LED HER TO RUN FOR PRESIDENT ON THE PEACE AND FREEDOM PARTY TICKET IN LAST YEAR'S ELECTION, FINISHING SIXTH.

THE FACT IS THAT EVERYBODY HAS AN OPINION ABOUT ROSEANNE. SHE MAY BE FUNNY, BUT SHE'LL RATTLE YOUR CAGE, TOO.

When you ran for president, you said some hilarious things about marijuana, even mimicking Charlton Heston's famous NRA quote: "You'll get my joint when you pry it out of my cold, dead fingers." That was pretty funny—but seriously, how deep does your activism go?

The War on Drugs in our country has brought fascism here. It's brought institutionalized racism to the streets through racial profiling. At Oaksterdam University, I gave a whole speech on legalizing marijuana, because it would be the first way to escape from the box that they've put our whole country in to lock down on. If we can legalize pot, we give the Drug War a huge kick in the ass. We're seeing so many of our national resources being used against us and our kids. It's a total fascist setup to control people and keep the power out of

their hands and the systems of discrimination in place.

These teenagers, mostly boys, that they arrest for a joint in the street—especially in New York, Florida and LA—they put them in prison and they have to work. Do you realize that 95 percent of all house paint in America is manufactured by prison labor for six cents an hour? Kids who are in jail, at the height of their strength, teenage strength—that's who's making house paint, and they don't have to pay them.

Our government is a union-busting, anti-worker, corporate fascist state, and legalizing pot is us fighting back at last. If we don't, it's just going to get worse and worse.

What's your take on President Obama?

I ran for president to

oppose him as well as Romney, because the American people weren't getting a choice. It was a vote between two Republicans. Remember what it was like when we had a choice from the middle-left? That wasn't Obama ... it was me! I ran on the same issues that Roosevelt, Lincoln and even Eisenhower ran on. I resurrected their points of view. Eisenhower right now would be looked at as a leftist radical.

Our government has gone farther and farther to the right. They put Romney in there to make Obama look like he was good. But he's not. He headed the largest heist in the history of humanity—the biggest heist of working people, who gave over whatever wealth they could earn in their lifetime to the rich. He gave us bullshit health insurance instead of health care. He's just a corporatist. He's a figurehead with little power. The people he serves are Goldman Sachs and the banksters—the tricksters.

You supported the Occupy Wall Street protests. How do you respond to criticism that you're speaking out against the so-called 1 percent despite being a wealthy person yourself?

I'd say it's pretty negative and small-minded. I didn't make my money from slave labor like those guys; I did it from telling jokes, from entertainment and art. To put artists, especially social critics, in the same boat as thieves and banksters is just another tool of the powers that be. Not all rich people, not all rich artists, are against the people. I'm not a thieving, lying whore of a bankster. I'm not a fucking Congressperson. I don't inside-trade. I'm not a criminal. I'm an artist.

That "1 percent" is bullshit, too. I told people at OWS and all the way up—everybody I talk to—don't

say "1 percent," because that's three million people. It's not three million people who have the power in this country; it's 1 percent of 1 percent of 1 percent! In actuality, it's 400 families in the world who own almost everything.

Interesting point. So tell us about your personal interaction with pot.

The first time I smoked, I was 17. I was with my sister, and we were sleeping out on our porch. I remember sitting on the porch with my mouth hanging open, looking at a tree and going, "Jesus Christ, is that a *tree*?" I couldn't stop staring at it—the complexity of it, the patterning. It opened up my mind to whole other conscious rhythms.

But for a long time after that, I didn't smoke—probably 10 years. When I was a young mother, I never smoked. I came back to it in my mid-30s. It helped me with a lot of anxiety and other issues. It's my treatment for anxiety ... because I get really anxious when I think I might run out of pot!

It's helped me so much, in so many ways. I have social anxiety bad, and it helps me with that. I have OCD. I have ADHD. It gets me out of the room. It helps me really relax. Plus I have glaucoma.

Wow. How about its powers for stoking creativity? Do you use it for writing?

Do I ever *not*? Writing is so hard, so fucking hard. When I'm writing for myself, it's crazy suffering—just torture. Like say it's due on Friday, and I already knew it was due on Friday for six months. Every day, nothing's coming, nothing's funny, I'm late, I'm fucking pissed off—I've built up so much anxiety by then. Everyone hates me because I hide out or scream and get angry. But like two days before the deadline, I'll be sitting there, or sometimes

I'm asleep—it's just so weird—and I start shaking, I seriously start shaking: "Oh my God, it's coming, it's coming! I feel it!"

Are you serious?

Yeah, I'm serious! Like I gotta get a fucking pen! But it's a torment, a stupid torment.

Magazine articles and stuff that I write seriously, and books—I've written three—I can do that. But when it comes to writing comedy, *God* has to come in. And pot helps—it just puts you in that altered state.

Powerful, creative women like you are often a lightning rod for controversy. Why is that?

Because we're brave. Women aren't supposed to be brave. In this culture, you're supposed to be accommodating and nurturing, kind and sweet and quiet. Like the Chinese say: "The nail that stands up gets hammered." I'm one of those nails.

Few of us will ever experience the backlash you did following your singing of "The Star-Spangled Banner" at a baseball game back in 1990. What's it like when the weight of the country's opinion comes down on you?

Horrifying. Also illuminating, because you see the real America. I saw the real American people, good and bad. There were a lot more good ones than I imagined. But the level of hatred that Americans harbor—the bigotry and hatred of women or Jews or whoever is their target that week—is very disturbing.

I was a useful idiot. When Desert Storm got underway, they blacked out the news but rolled me singing the anthem over and over for *days*, because they were hiding the fact that they had gone into Iraq.

I have a joke that I tell: "I know this is a Christian country, but can't you forgive me anyway?" They go around blabbin' that shit about forgiveness all the time, but if somebody makes a mistake or



At 60, Roseanne continues to mow audiences down in her standup act.

"In this culture, you're supposed to be accommodating and nurturing, kind and sweet and quiet. Like the Chinese say: The nail that stands up gets hammered. I'm one of those nails."

misjudges things, they keep bringing it up and never forgive. They still try to blacklist everything I do nearly 25 years later, no matter how many times I've explained or apologized or even corrected it.

Early in the *Roseanne* series, you went to war with one of the writers who claimed he created the show. It made national headlines. Did you ever question yourself when you sought more creative control?

You mean did I want to quit? Yeah, but I didn't have the guts. I didn't want to let go, so I had no choice but to fight it. They were trying to fire me. They had already stolen my work; now they wanted to boot my ass on top of it.

Many shows on television over the last 20 years were written by people who worked for me. I see lifting of the *Roseanne* show and the characters. That's just how this culture is in regard to everything women do. First they kiss your ass. Pretty soon, they're excusing themselves because they think calling you a genius absolves them from stealing your shit. I always say, "As soon as somebody

calls me a genius, I know I'm getting fucked in the ass."

But so many women identified with the *Roseanne* character and the problems of a lower-income family.

It wasn't just a hit show; it exploded all cultural boundaries. It spoke up for working-class people, for women, for girls—for working men, too—and family. It was the first time the phrase "working class" was used in American media. The media keeps saying bullshit like "blue collar." They never want to talk about class in America. I feel I was the first socialist on TV.

People come up to me every day and say, "You raised me," or "Your show was my only refuge—I was a young gay kid in Yahooville or Hicksville State, and the show was all I had." People say it was liberating or comforting. A lot of people saw me as a surrogate mom—and that's cool. It's kind of why I did it.

In a *Rolling Stone* interview with the *Seinfeld* cast, you were quoted saying the *Seinfeld* people acted as if they were doing Brecht. [Bertolt Brecht was an

influential German playwright and theater director.]

Yeah, I said it.

In the interview, Jason Alexander said, "I doubt if Roseanne has ever read Brecht."

Classic. *Seinfeld* was a good show, not a great show. We were on the same lot as them, and they were just so arrogant, it pissed me off: "Are you aware of the fact that I'm a producer? I'm not Roseanne Connor. I don't *really* work in a hamburger joint."

Julia Louis-Dreyfus would park her car in my clearly designated parking space all the time. It just got on my nerves—like, why are you doing this? And we asked politely. It pissed everybody off. I took a picture of one of my cast members' ass and stuck it on her windshield and told her to go fuck herself. So we were never friends after that.

But, God, the way she acted toward me was like, "You're a disgusting person." And I'm like, "Hey, bitch, you parked in my space over and over and over!" I felt like: "Man, that classism stuff really works—even for your character."

It was weird because *Rolling Stone* always excluded me when they covered television comedy also. *Seinfeld* was on the cover like 92 times, but just last week I did my first *Rolling Stone* interview. I always felt that there was a drive to diminish me because I'm a woman, because I'm a socialist or whatever reason they've got. Maybe because someone who looks like me, and who I represent, happens to be the viewers that watch their shitty shows.

I get really defensive about it. I really put my ass on the line to feature gay characters. When my show became number one, I was like: "I'm going to burn the motherfuckers down! Now it's gonna be gays, it's gonna be girls and depression, it's gonna be alcoholism, it's gonna be jobs, it's gonna



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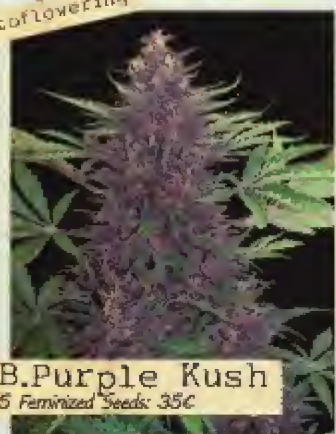
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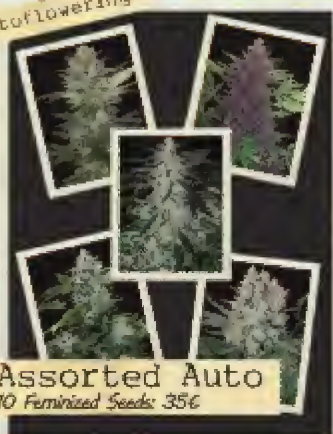
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be starting a small business, family dynamics, class, race—all of those things and many more.”

When I got the Peabody Award, they said that *Roseanne* got a Peabody for *finally* being about something. They also gave *Seinfeld* a Peabody for being about nothing. It was like getting slapped. It always was like that; it continues to be.

But didn't you draw satisfaction from the show's success?

As far as the work is concerned, I don't have a choice: I *have* to do it. I might do some damage if I didn't have my creative outlet, like a lot of artists.

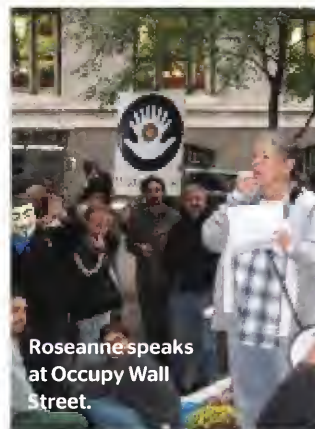
Do you think comedy is more mean-spirited these days?

Comedy reflects the times we live in. We're traipsing around 52 countries with our army, so of course we're bullies from the top down. People like bullying in America; they love it on every level.

Like comments on the Internet—so many of them are disgusting. Here's the question: Do we want freedom of speech? Maybe we don't, because the level of intellectual debate and discourse is so reduced—that's what's really getting censored by all of that stupid bullshit. It keeps smart people away ... and anybody who has anything smart to say is completely suspect in this country.

Which comedians impress you?

I'm a comedian, so I like all comedians. I like to watch them. I judge them. Perhaps I say, "Oh, this isn't my cup of tea" or "Boy, that's juvenile. That's something a fucking chronic masturbator comes up with"—which is



"Anybody who has anything smart to say is completely suspect in this country."

mostly guy comedy.

I'm a comedy fan, so if I'm gonna break it down, it's intelligent comedy versus lower comedy. There are women and men who are frigging great. I don't see it being a gender thing: There are great comics—male, female, black, white, gay, straight, everything. And there are a lot of dumb ones.

I admire all comedians because it takes a lot of guts to get up and put yourself out there. Not many people can hold 300 people's attention for an hour with just words. Fewer women than men can do it, so I'm proud of anybody who even tries it, because I know how hard it is.

What do you think of Sarah Silverman?

I love her. I love everything she does.

Lisa Lampanelli?

Love Lisa ... she's in a class all by herself. She's so daring, she's beyond gender. Sarah is, too. Sarah plays with the limitations of gender because she's so attractive. But

Lisa just mows it all down. She's a wonderful person, and she's a fierce activist, too, when she puts her mind to it. I've got to say, my favorite living comic is Mort Sahl. He's still hilarious and edgy—edgier than anybody.

How about Chelsea Handler?

I really like Chelsea, too. She's really good and very different. She's an angry comic, like the rest of us. She found her niche because she looks like she looks, but she's another angry comic. She's transcended the girl thing, even though she plays it as well.

Do you think a comedian can make a difference?

We're psychic boil-lancers—that's what we all do. We're angry people because we don't like injustice and bullshit. We've probably seen a lot of it and fought back against it.

Everybody says, "The pen is mightier than the sword." But the joke is mightier than the pen. The joke, man, can take empires down when people start laughing up a shit storm. I'm really proud to be one of the people that get to help do that.

At age 60, how do you view your life?

I think the older I've gotten, the more limitations leave or disappear. Life gets broader and bigger with the loss of limitations. I'm not afraid to challenge myself. I just want to keep going for now. I don't feel constrained—I've already got 60 years that I don't have to do again, so I'm just going to keep going. 🌱

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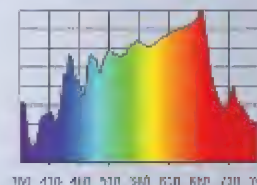
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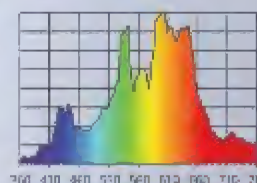
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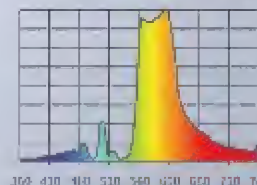
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CCT: 3000k - 4200k
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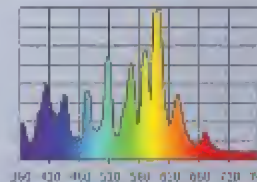
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Massive outdoor plants must be fed nutrient solution with proper pH levels to thrive.

SUBJECT: **pH Outdoors**

FROM: **Climbin Higher**

Hey, Danny—longtime fan, first-time question asker. If you were doing an outdoor grow, would you still pH-balance your nutrients to 6.5? Isn't rainwater at around a pH balance of 8.0? If you use a plastic 55-gallon drum with drippers, could you put a funnel on the top of it to collect rainwater? And if you added your nutes to this 55-gallon drum, what would you do about the pH balance? Thanks, and I love the podcast!

Dear Climbin,
Thanks for the kind words and great questions! The first thing you should do is to test the pH of the existing soil in your outdoor grow area. A simple kit will give you a good idea of what you're working with, and you can act accordingly. Lime can raise the pH level, and elemental sulfur will bring it down. If your water tends to run lower than 5.8 or higher than 7.0, I would certainly adjust the pH before adding the nutrient solution to your plants.

The pH of rainwater fluctuates, but most rainwater in the US tends to be substantially lower than 8.0, with the average pH running in the 5's and 6's. Unfortunately, as the CO₂ levels in the atmosphere continue to rise, we can expect the pH of rainwater to become ever more acidic. If you're collecting rainwater in a 55-gallon drum, add your nutrients and then adjust the pH (using pH Up or pH Down) to optimal levels before watering your plants.

Danko Tip: Grow lights should never be more than 2 feet away from plant tops, which means you need to raise or lower them as necessary.

Ladybugs feast on the vegetarian bugs that plague our pot plants.



SUBJECT: **Ladybugs**

FROM: **Willie BoBo**

🐞 Will ladybugs really kill all the pests in my garden? I grow my weed plants outdoors among many other organic herbs and vegetables, and there's constantly one infestation or another. I can get live ladybeetles at my corner store in town, but I'm wondering if they're worth it.

Dear Willie,
Ladybugs will feast on the pests in your garden, but once the level of pests diminishes they'll quickly move on, leaving mature pests as well as eggs behind to continue to plague you. Unfortunately, ladybugs are a migratory insect, but they're still a great organic way to attack a spider-mite, scale or aphid infestation

temporarily and decimate its ranks. The important thing is to apply an integrated pest-management system to control pest populations, and predatory insects are just one part of that whole.

SUBJECT: **Guerrilla Gardening**

FROM: **Big Pooch**

🐞 Is it possible to grow in a wooded area? We have many of these near where I live, but I'm not sure how to get started.

Dear Big Pooch,
Yes, it is possible to grow in a wooded area, but there are a few things you need to consider and a few factors that must be in place. First, you need to find the right spot in your wooded area. This means scouting out several locations and

finding the one that's right for you.

The first thing to consider is safety and stealth. You don't want to plant on someone's private land. Scout out places in the woods that don't look like areas where people go hunting or hiking; planting along trails will do you no good. One smart tip I've heard is to pin a few dollar bills to the trees in the area where you want to plant. If they're still there when you go back, it could be a good spot. If they're gone, it's time to move on.

The next consideration is light penetration. You want at least six or more hours of full sun in order to get decent growth from your plants. Find an area (preferably on a southern-facing slope) where the trees have fallen and the new growth isn't too tall. A clearing surrounded by thorns makes a perfect spot where hikers, hunters and deer are unlikely to tread.

Next, bring a shovel and dig some holes in your chosen spot. Supplementing and aerating the local soil is a must, so bring along some light soilless mix to add to your hole and mix it up with some of the local soil you've dug out. This is a great time to add polymer crystals that soak up water and release it over time to your plants. Once you're done digging, do your best to camouflage the holes by using leaves and twigs to cover the upturned dirt.

When springtime comes and the threat of frost is nil, bring the rooted clones or seedlings that you've started indoors to your spot and gently transplant them into the holes. Water them in and take care not to make a trail in and out of your clandestine grow spot. There are also great surveillance products, such as motion-detector cameras, that you can mount on nearby trees in order to keep a watchful eye on your pot plot. Good luck!

SUBJECT: **Silent Humidity**

FROM: **Mario A.**

🐞 I recently started growing, and my babies are nearing their two-week birthday. For some reason, though, they are drooping, and I'm not sure why. I am aware that I was overwatering for a bit, but I purchased a moisture meter and that's no longer an issue—I've been watering less, and yet they continue to droop. The leaves also look rather dry. I've got a meter for every conceivable factor (except for a

Big Skunk



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light meter), and everything is within the acceptable ranges listed in Jorge's grow bible. The only thing that's wrong is my humidity: The highest it's ever gotten is 39 percent, and usually it hovers near the low 20s. I'm not sure if this could be affecting my plants, since apparently low humidity is unheard of in the cultivating community. I've tried some homebrew methods for increasing the humidity, without much success. I even went so far as to buy a tiny humidifier, which is sort of helping, but the humidity levels are still not near the acceptable range. What could be causing my plants to droop and look dry, and what can I do about it?

Thanks for your time and your efforts!

Dear Mario,

Seems that you've diagnosed the problem perfectly: Low humidity is very likely the cause of the drooping leaves, and it can make them seem dried-out as well. You have to find a way to raise the humidity in your growroom. I would definitely replace that tiny humidifier with a larger one, for starters.

You can also put a pot of water on a nearby heater and mist the plants often if it's not a very large space. If you have a large growroom (bigger than 8' x 8'), you may want to consider investing in an evaporative cooler (a.k.a. swamp cooler) to moisten the air. Once you get your humidity up to the preferred 50% or so, you'll see signs of healthier growth.

SUBJECT: **Make Seeds or Take Clones**

FROM: **Brian C.**

Hey, I hope this isn't a dumb question, but I have six Grape Krush beans from the one and only DJ Short, which I understand have been discontinued. If I grow them out and pick out the best-looking male and let him breed with the ladies, will I have true Grape Krush beans or just a ton of God only knows what kind of seeds? I've had terrible luck when it comes to cloning, so that's why I ask. I was hoping to have a few plants left from my 100-seed pack of beautiful Grape Krush—it was easy to grow and I just loved the high, so I don't want to blow my last six seeds. Please help a shitty cloner!

Dear Brian,

It's quite likely that if you cross a random Grape Krush male with a random GK female, you'll get a mishmash of genetic

Danko Tip: Wear surgical gloves when trimming to avoid gumming up your fingers with resin. Then you can freeze the gloves and chip off the "finger hash."



A rooted clone ready to plant into a larger container.

behavior in the offspring that's not likely to reward you with a good keeper mother plant. You're better off picking a nice female out of the seeds you've already got than gambling on an amateur breeding project. All you need is a better cloning regimen, and then you'll have your beloved Grape Krush buds for as long as you want to continue growing them out.

The easiest and cheapest way to get cloning successfully is to purchase a cloning tray with the medium of your choice. I prefer organic mediums such as peat pellets, or (better yet) filling up the little individual seedling inserts with a moist soilless mix. Rockwool works fine for hydroponic and other non-organic applications. Be sure to get a tray with a clear plastic dome and invest in an electric heating mat to place beneath your tray.

The two most important factors in cloning are heat and humidity. You must maintain both at levels higher than room temperature and typical indoor moisture levels. The heating mat will help greatly, and the medium that your clones will root in must be kept moist at all times. I find that 4' or 8' fluorescent fixtures—ones designed specifically for growing plants, and kept at a distance of just an inch or two above the trays—work best.

Also, take your cuttings using a sharp, non-serrated blade; make a slice just below a node and then remove that node

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Danko Tip: If you constantly have trouble with your tap water, invest in a reverse-osmosis (RO) machine to remove the impurities.

and the one above it. You want at least two to three sets of leaves remaining above your cut, so they should be 2 to 3 inches long at a minimum. Gently insert the cuttings into prepped holes in your medium, up to 1 inch. Some people trim the remaining fan leaves down, but this isn't necessary. Keep your cuttings lit, moist and warm, and you'll master cloning in no time.



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SUBJECT: Supplementing With Sun

FROM Alex

First, I want to say, "Thank you, Danny!" Your *Free Weed* podcast convinced me to get legal and start my first medical grow. Keep up the amazing work! You've made a lifelong fan.

I'm growing some Granddaddy Purp indoors in soil (all-organic, of course). I've noticed that my back patio gets some amazing afternoon Cali sun. I can't grow out there permanently, but I was curious about maybe sticking them outdoors for a few hours every day. Would this help supplement my high-intensity discharge (HID) lighting, or would the back-and-forth just confuse my plants and do more harm than good?

Dear Alex,
Glad you enjoy the podcast, and it's nice to know I've inspired another freedom garden. You'll find growing legally to be very enjoyable, with the added benefit of knowing exactly what went into your medicine.

Placing your plants outside for a couple of hours in the full sun won't hurt a bit—in fact, it can only help. As long as they're supposed to be receiving light indoors under your grow lamps at that point in their photoperiod, you can supplement it by putting them outside. Just don't ever put them out during your growroom's "nighttime" hours: You never want to interrupt the 12-hour dark period during flowering. 🌱

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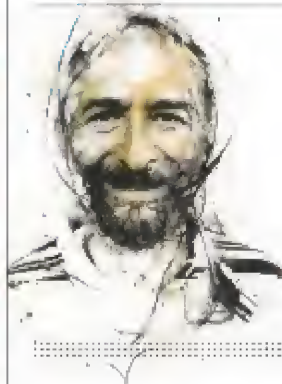
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What is the deal with THCA?

Patrick McKnight

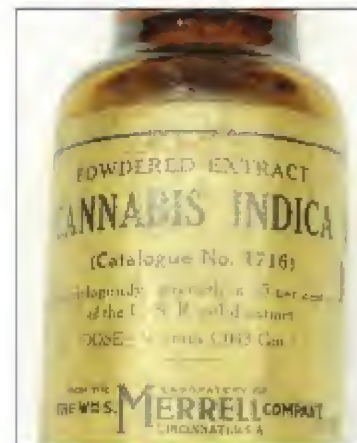
Hi Patrick, THCA is tetrahydrocannabinolic acid, which becomes THC when the plant is dried or heated. It's an anti-inflammatory that doesn't alter consciousness. Most research has focused on how its presence in urine can help detect whether someone with a dronabinol (synthetic THC) prescription is sneaking a toke on the side. (What a waste of effort!)

And that's about all we know. Even so, THCA is all the rage now because it's present in raw juiced cannabis. Some people swear by juicing, and I wish them well. However, right now it strikes me as an expensive habit without a ton of empirical work supporting its health benefits. On the other hand, that is how lots of great medicines get their start.

TV shows suggest that folks drank more whiskey and less beer during alcohol prohibition. Are people turning to stronger marijuana in the same way?

Enoch Buscemi

Hi Enoch, Generally, as marijuana arrests go up, so does the average THC content in seized plants. In fact, the correlation between one year's arrest numbers and the next year's potency is almost perfect: around 0.9 (with 1.0 as the highest possible). Incidentally, the demand for stronger pot is not as big in Amsterdam, where the plant is more available and carries fewer penalties. Coincidence? I think not.



Cannabis medicine goes way back.

Why didn't medical marijuana catch on in the US back in the 1800s?

Drew S.

Hi Drew, Cannabis started appearing in US medical texts by the 1820s, but back then its strength was low and highly variable, making it less than ideal for use as a medicine.

I know that THC helps nausea, but does cannabidiol work, too?

Captain Diol

Hi Captain, Cannabidiol, the non-psychoactive cannabinoid present in some strains but rather lacking in others, has a ton of great effects. New data from Canada reveal that cannabidiol alone can decrease nausea in rodents. It also appears to have a beneficial effect for those who suffer from seizures. Learn more at projectcbd.org. ✨

Dr. Mitch Earleywine, PhD, is an associate professor of psychology at SUNY Albany and the author of Understanding Marijuana and The Parents' Guide to Marijuana.

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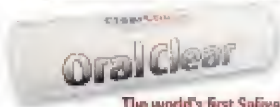
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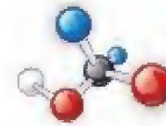
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Free Roger Christie

Unfairly imprisoned for pot politics.

Roger Christie grew up in New Jersey in the 1960s and enlisted in the US Army soon after the Vietnam War broke out. He attended the Army's spook school in Maryland on his way to becoming a military intelligence operative, but like Tom Forçade a few years before him, Christie grew disenchanted with military life—so much so that, when the time came to be shipped to Vietnam, Christie instead declared himself a conscientious objector and eventually moved to Hawaii to seek a more peaceful way of life.

Shortly after I became editor of this magazine, Christie got in touch: He was excited about the direction I was taking *High Times* in and wanted to jump into the emerging hemp movement with both feet. Christie started a number of businesses around hemp and got involved with the spiritual-rights issues that I had long been championing. All of this wouldn't have been enough to get him in trouble, but Christie decided to become involved in local politics, and ran for Hawaii County mayor a few times. And that's when the heat really started.

In 2000, Christie founded the THC Ministry which uses cannabis as part of its services, and began handing out free samples of cannabis at the end of every workday to whoever dropped by the ministry and wanted it. According to Wikipedia, a violent gang war broke out in the area where Christie was distributing free cannabis—almost as if the sudden appearance of free cannabis in a poor neighborhood had created a turf war.

Christie went on to become the most vocal opponent of the local marijuana eradication efforts known as "Green Harvest," the Hawaiian version of California's CAMP helicopter raids on wild patches. In 2008, he helped pass a ballot initiative designed to make the personal use of marijuana on private property the lowest law-enforcement priority.

Soon the fix was in to "get Christie,"

who began dodging all sorts of attacks, though he was able to shield himself using the cloak of religious rights to great effect. But once the Feds managed to jail Christie, they never wanted to let him go. He was arrested on July 8, 2010, and has been held as a political prisoner ever since—despite posing a threat to no one.



Christie: pot prisoner

Christie's life has been shattered, and he's lost all his businesses. He is being represented by a public defender and faces a possible 120-year sentence on three counts. Recently, six state senators introduced two resolutions declaring Christie's imprisonment without bail to be "illegal and unconstitutional." They want him released immediately and think President Obama should launch a formal investigation into this case. Although Christie was arrested with 13 others almost three years ago, he is the only one who remains in federal detention. Many of the others were released immediately in exchange for testimony against him.

So far, Christie has been denied bail seven times, and the Feds keep drumming up new charges against him. Obviously, they're sending a message to local cannabis activists not to follow in his footsteps. His trial is set to begin on July 23, 2013.

I've been watching Christie for decades, and I always felt he was one of the more level-headed and sensible figures surfing the marijuana/religion nexus. Yes, it's going to be very difficult to stake out legitimate religious rights for marijuana use, but that doesn't mean it isn't a fight worth pursuing.

Let's rally round Christie in his hour of need. Learn more by visiting *the-last-marijuana-trial.com*, or write to him at:

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The Rainbow Connection

Stalking stoner celebrities on the Sunset Strip.

"Isaw Charlie Sheen at the supermarket," my wife April informed me unenthusiastically upon returning from "Rock 'n' Roll Ralphs." I was jealous—while she's thoroughly unimpressed by movie and rock stars, I'm an admitted "starfucker" (as she mockingly calls it). And though we'd already been in Hollywood for a week, I'd yet to spot a single celebrity or even hit the town. But that night, we'd be going where I knew I could do both: the Rainbow Bar and Grill on the Sunset Strip.

Every time I've been to the Rainbow, it's been rockin', and I've always seen stars (the first time, it was *Jackass's* Steve-O and *Insomniac's* Dave Attell; the next, Tommy Lee and Sen Dog). I hoped tonight would be no exception. Surprisingly, though, when we got there around 10:30, the place was pretty empty. I followed the siren's call of Metallica toward the back of the patio, where we met up with *HT* alumna Natasha "Vaporella" Lewin and our friends Yakov and Felicia and ordered a round. Sure enough, before I'd emptied my first beer, Natasha was giving me the old elbow to the ribs.

"You see who's sitting behind me?" she whispered. "That's Eddie Furlong!"

I stared back at her blankly. "Who?"

"The kid from *Terminator 2!*"

Yep, it was him all right. He looked older, obviously ... a bit *too* old, though—kind of burned-out looking. He was with a few friends and seemed pretty jumpy.

"You should talk to him," Natasha egged me on. "He's a big pothead."

I had to think about that. Sure, *T2* was a huge hit, but that was back in 1991. Today, he seemed more worthy of a Comic-Con autograph session than a feature interview in *HT*. Before I could decide, though, Furlong did it for me, abruptly standing up and leading his posse out. No matter—with any luck, there'd be another, hopefully bigger celeb along soon to take his place. Sure enough, I was right: Within 10 minutes, none other than Jane's Addiction guitarist (and androgynous sex symbol) Dave Navarro came strolling in with some arm candy, and parked his leather-clad ass in the exact same seat that little Johnny Connor had just vacated. This time it was my turn to do the elbow job.



"Don't look now," I whispered to Natasha in full starfucker mode, "but that's Dave Navarro behind you!" He didn't linger long, though; within minutes, he and his date followed the waitress inside for dinner.

After a few more beers, Yakov and I walked out to the front of the patio to get our smoke on. About halfway through the joint, a tall, forceful figure in Gestapo boots and a gnarly leather cowboy hat charged past us towards the back bar. It was the rock god himself, Lemmy. I'd come within a hair of meeting this metal icon twice before, and I didn't want to let the opportunity pass me by again.

"Come on, Yakov," I said as I tamped out the roach. "Let's go find Lemmy!"

We headed past the outside bar and ascended the back stairway, emerging into the dungeon-esque dance floor upstairs. No sign of Lemmy—just a handful of middle-aged wannabes, such as the groupie grandma with bleached, teased hair, dressed in a red-and-black zebra-striped unitard and gyrating awkwardly like some septuagenarian stripper on smack.

"Old groupies never die," Yakov joked as we headed past the bathrooms and down the stairs; "they just retire to the Rainbow!"

We looped through the dining room, admiring the famous photo-filled walls above the booths of crimson velvet—one of which boasted Navarro and his lady—but still no sign of Lemmy. Oh, well ... wherever he was, I reasoned, he probably didn't want to be found anyway. We returned to our table, finished a final brew and then made our exit.

Coincidentally, both Sheen and Furlong ended up making the news the next day—Charlie for donating \$75K to a little girl with cancer, and Eddie for being arrested in Van Nuys after violating his ex-girlfriend's restraining order (must've been quite a tear he went on after leaving us). Lemmy, however, remains at large ✨



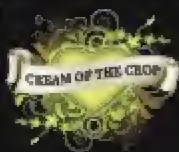
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Allen St. Pierre is the executive director of NORML. Visit norml.org.

After prohibition ends in the Americas—and most of Europe—a so-called “three-legged stool” that is going to characterize the post-pot-prohibition era will emerge. So let us peek into a future when cannabis is legal to examine this uneasy triumvirate: government, businesses and consumers.

The likeliest scenario for legalized cannabis is one that looks similar to the current situation with alcohol, tobacco and pharmaceutical products—where the government doesn't treat cannabis as morally reprehensible; where cannabis businesses professionally cultivate and distribute cannabis products, collecting and delivering billions of dollars annually in sales and excise taxes to the proper government agencies; and where the responsible use of cannabis by adults is of no concern to law enforcement.

Naturally, a certain friction will always exist among these three players. Government will always seek more revenue and increased regulation; businesses will oppose these government-created costs of doing business; and consumers will do what consumers usually do: find the best product at the lowest price.

Walmart founder Sam Walton famously declared that the customer can fire the seller anytime they want by taking their business elsewhere. The



The cannabis industry itself is already a thriving network of wholesalers, cultivators, and national and retail distributors.

free-market economies of the Americas and Europe are driven by consumerism: The consumer is at the center of the action and capable of causing economic expansion or collapse. As cannabis consumers, we should always remain cognizant of this fact, since we will *not* be immune to excessive government regulation and taxes.

While consumers and government

make up two solid legs of our three-legged stool, the final leg—the cannabis industry itself—is already a thriving network of wholesalers, cultivators, and national and retail distributors. As with alcohol and tobacco, all of these entities are engaged in the same basic business—and when one camp perceives that another is gaining a tax advantage or favorable

position because of some new regulation, political warfare almost invariably erupts behind the scenes (and sometimes in public). Don't expect cannabis wholesalers and retailers to act much differently in the post-prohibition era.

But bear in mind that, post-prohibition, the consumer's wants, needs and ethical values will largely inform the scope, size, and pervasiveness of both cannabis commerce and the government's involvement. Also, there will always be a need for well-organized cannabis consumer groups to help maintain low prices, reasonable taxes, access to high-quality products, and especially the autonomy of consumers to cultivate their own supply. ✨

FREEDOM FIGHTER

by Erik Altieri, NORML communications coordinator

Black's Magic

Thanks to Kevin Black, the Seattle Hempfest is highly secure. His marijuana activism began when he co-founded the first Washington State NORML chapter, NORML of South Puget Sound, with Gloria McGovern, Lee Newbury and Angie Newbury. But these days, Kevin Black's greatest influence is exerted at the yearly Seattle Hempfest. He became heavily involved with the organization of the annual event in the early 2000s as a core member, serving as its security

coordinator before joining the steering committee as security director and police liaison. Kevin's efforts have helped keep things enjoyable and safe for everyone attending the Hempfest throughout its storied history.

Witness his handling of a difficult situation at the 2006 Hempfest, one of “my proudest accomplishments,” Black says. When construction work turned the entrance to Myrtle Edwards Park into a dangerous,



enclosed “cattle chute” for attendees attempting to enter, Kevin kept a cool head and deftly addressed the problem. With local police bearing down on the event organizers, he rustled up a pair of bolt cutters and pried open the fence, which allowed safe access to the park and cleared the dangerously crowded walkway, averting a potential disaster.

“The looks of relief and gratitude said it all,” Kevin recalls. “It wasn't the

construction company, the police or the fire department that came to the rescue—it was *us!* My mother was there, and she beamed with pride as our attorney raved about how I'd potentially saved thousands of lives.”

Kevin has also worked directly with the November Coalition, which fights for the rights of prisoners who've been jailed as a result of the Drug War, as its local vigil coordinator. And he founded the annual Christmas Vigil at King County Jail, which continues to this day.

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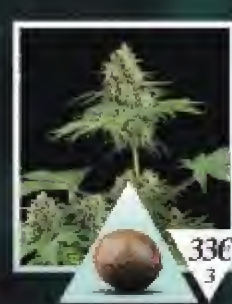
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CLOSEUP OF THE MONTH


Blue Top

 Hola, please find attached a photograph of Blue Widow. I wish it was scratch and sniff. Peace! *Ganji-wan Kenobi*



NUG OF THE MONTH

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GARDEN OF THE MONTH


Mile High

 This is my Colorado medical garden growing strong with some LSD and Vanilla Kush. Cheers! *Blizzard*



GROWER OF THE MONTH

New York State of Kind


 All of these branches were grown in New York on the Beast Coast! Thanks! *K11ng*



HARVEST OF THE MONTH


Staying in Vegas

 My name is Kyle, from Las Vegas. I'm co-founder of 28gsclothing. This photo is for everyone that says Las Vegas doesn't have that bomb Bubba Kush. Follow 28gramscloting on Instagram. *Kyle*




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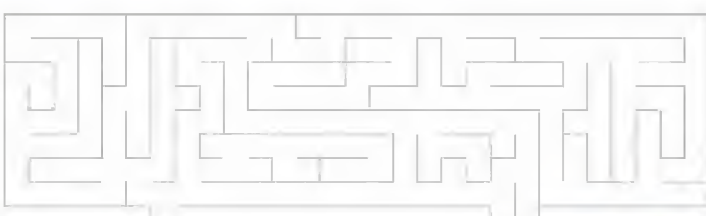
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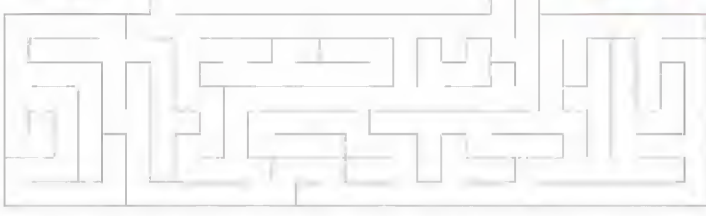


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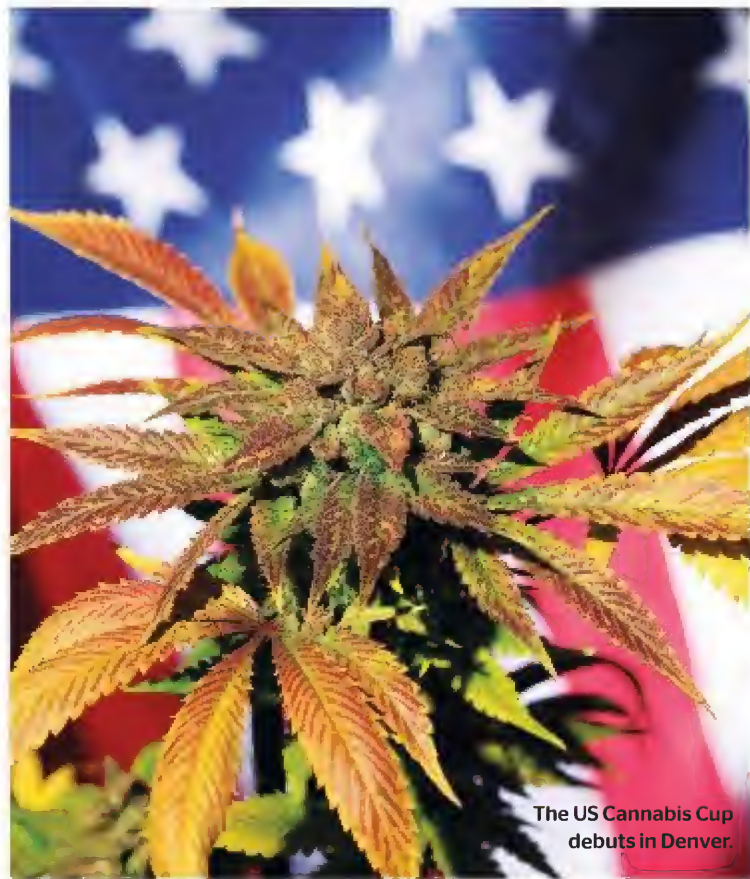
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▶ **Sky-High in Denver**

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▶ **Canadian Crisis**

Health Canada is at it again, making it more difficult for Canadian med-pot patients to access their medicine. Editorial director Dan Skye visits a massive grow op in Ontario and reports on how the cannabis industry must adapt.

▶ **LSD Turns 70!**

Author Martin A. Lee provides recollections of Dr. Albert Hofmann and an update on LSD in America as we celebrate the 70th coming of "Bicycle Day."

▶ **The High Times Interview: Adrian Grenier**

The star of the hit series *Entourage* has just produced *How to Make Money Selling Drugs*. He calls the hard-hitting documentary "an accurate picture of what the War on Drugs is doing" and sits down for a frank discussion.

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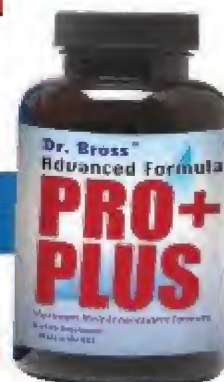
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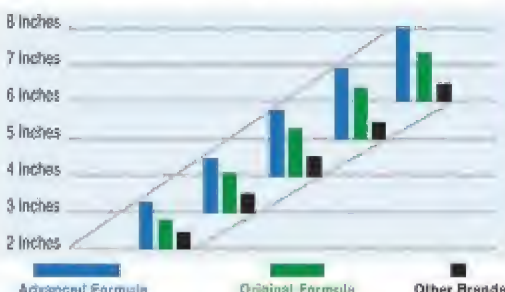
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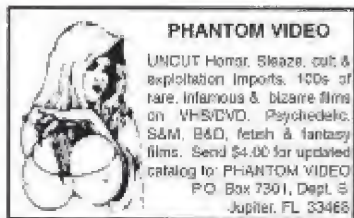
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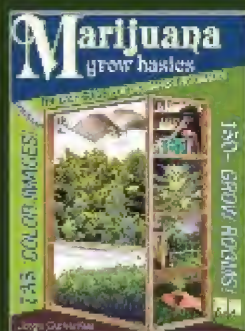
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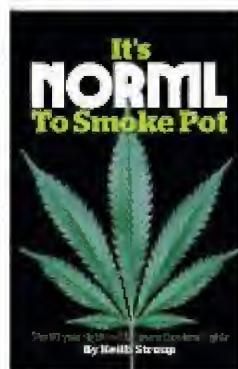


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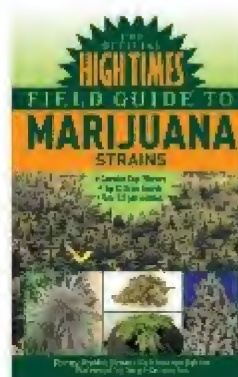


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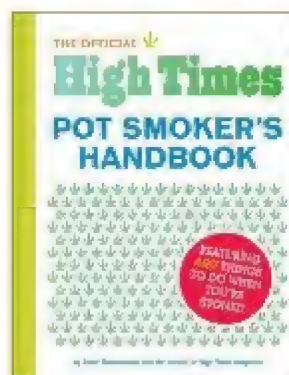
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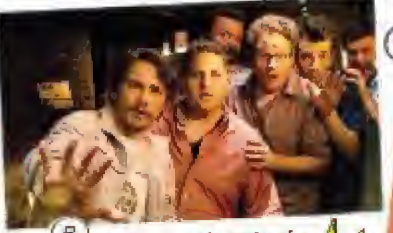
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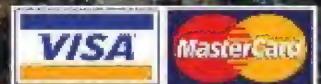


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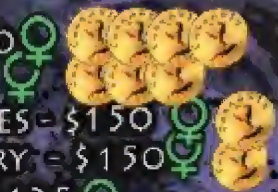
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